

JVC

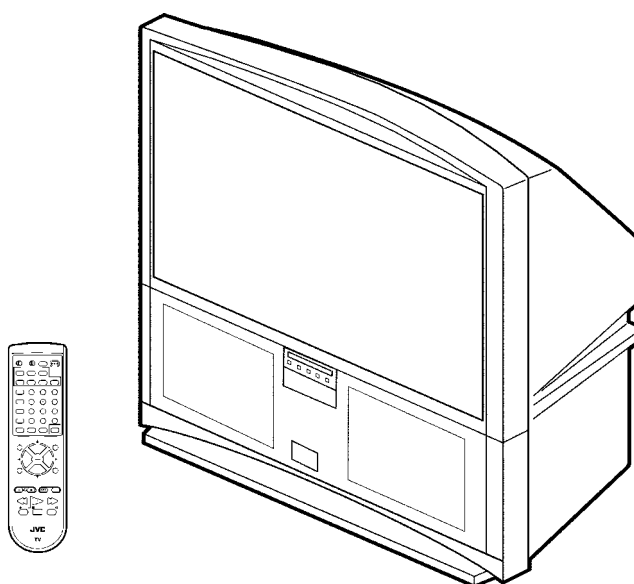
SERVICE MANUAL

REAR PROJECTION TELEVISION

AV-56WP30

BASIC CHASSIS

SB2



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SPECIFICATIONS

Items	Contents
Dimensions (W×H×D)	136.8cm×138.6cm×66.7cm (53-7/8"×54-5/8"×26-3/4")
Mass	95.0 kg (209.0 lbs)
TV RF System	CCIR (M)
Color System	NTSC
Sound System	BTSC System (Multi Channel Sound)
TV Receiving Channels and Frequency	
VL Band	(02~06) 54MHz~88MHz
VH Band	(07~13) 174MHz~216MHz
UHF Band	(14~69) 470MHz~806MHz
CATV Receiving Channels and Frequency	
Low Band	(02~06, A-8) by (02~06&01)
High Band	(07~13) by (07~13)
Mid Band	(A~1) by (14~22)
Super Band	(J~W) by (23~36)
Hyper Band	(W+1~W+28) by (37~64)
Ultra Band	(W+29~W+84) by (65~125)
Sub Mid Band	(A8, A4~A1) by (01, 96~99)
TV/CATV Total Channel	180 Channels
Antenna Terminal	75Ω (VHF/UHF) F-type connector
Intermediate Frequency	
Video IF Carrier	45.75MHz
Sound IF Carrier	41.25MHz (4.5MHz)
Color Sub Carrier	3.58MHz
Power Input	120V AC, 60Hz
Power Consumption	225.8W (Max) : 0.6W (Stand by)
Screen	Transparent screen (unitized fresnel lens / double lenticular lens)
Screen Size	56" (142cm) Measured diagonally, 16:9 ratio (W:124.0cm, H:69.8cm)
Projection Tube	17cm (6.7") tube ×3 (R / G / B)
High Voltage	31kV±1.0kV (at zero beam current)
Speaker	φ16cm round ×2, φ5.5cm round ×2
Audio Power Output	10W+10W
External Input	
Video Input	1Vp-p, 75Ω (RCA pin jack ×4)
Audio Input	500mVrms (-4dBs), high impedance (RCA pin jack ×8)
S-Video	Y: 1Vp-p positive (negative sync provided, when terminated with 75Ω) C: 0.286Vp-p (burst signal, when terminated with 75Ω) Mini-DIN 4pin connector ×2
Component Input	PB: ±0.35Vp-p, 75Ω (RCA pin jack ×2) PR: ±0.35Vp-p, 75Ω (RCA pin jack ×2) Y: 1Vp-p, 75Ω (RCA pin jack ×2) 1080i DTV (digital broadcast) ready
Audio Output	Fix : 500mVrms (-4dBs) low impedance (1kHz when modulated 100%)
Digital-Input	DVI-D signal link 19pin connector (Digital-input terminal is not compatible with computer signal.)
Speaker Input	45W 16Ω (maximum input)
AV Compulink III	φ3.5mm mini jack
Remote Control Unit	RM-C322G (AA/R6/UM-3 battery ×2)

Design & specifications are subject to change without notice.

SAFETY PRECAUTIONS

- The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- Use isolation transformer when hot chassis.**
The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.
- Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\perp) side GND, the ISOLATED(NEUTRAL) : (⏏) side GND and EARTH : (\oplus) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
If above note will not be kept, a fuse or any parts will be broken.
- If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
- The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10k Ω 2W resistor to the anode button.
- When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

10. Isolation Check

(Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.

(... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

This method of test requires test equipment not generally found in the service trade.

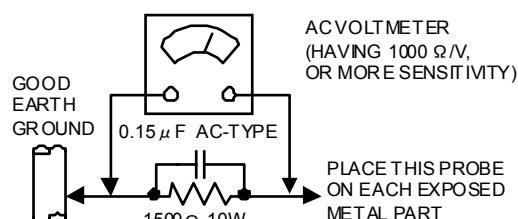
(2) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

● Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



11. High voltage hold down circuit check.

After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.

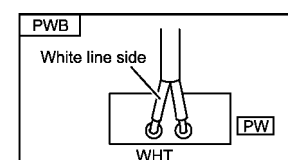
See item "How to check the high voltage hold down circuit".

This mark shows a fast operating fuse, the letters indicated below show the rating.



POWER CORD REPLACEMENT WARNING.

Connecting the white line side of power cord to "WHT" character side.

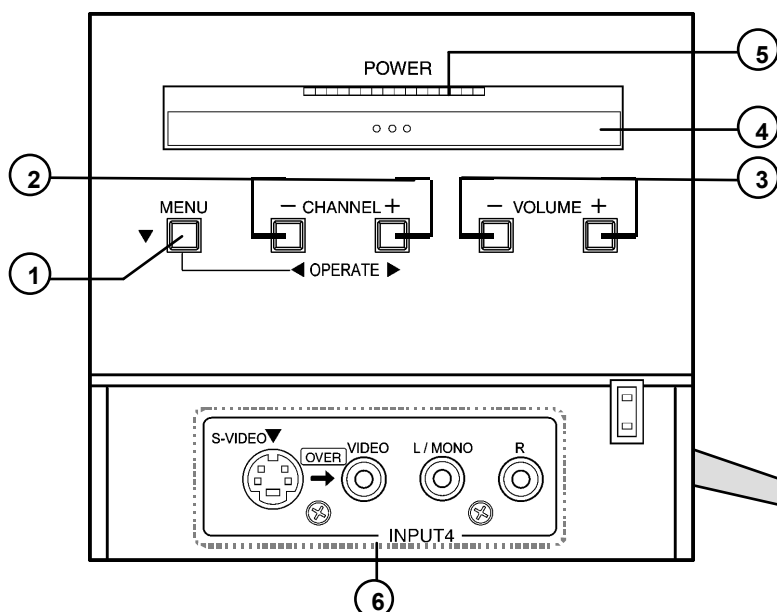


FEATURES

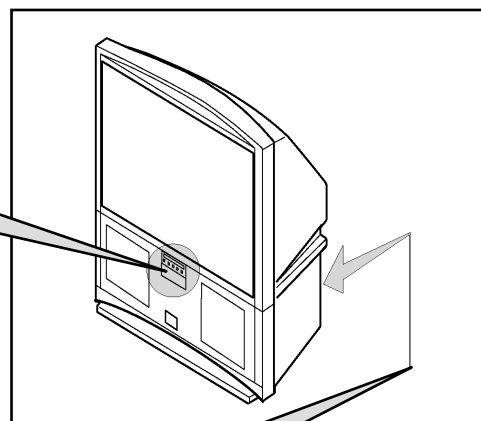
- New chassis design enable use of an interactive on screen control.
- 2-3PULL DOWN : You can enjoy DVD movies at the highest picture quality.
- MOTION COMPENSATION : With this function, the seamless reproduction of dynamic motion on the screen has been realized.
- Built-in DSD (Digital Supper Detail) circuit and 3 dimension Y/C separate circuit.
- Receive DTV broadcast (1080i / 720p / 480p / 480i)
- Built-in HDCP / Component (Y / PB / PR)
- Built-in Hyper Sound, BBE circuit.

FUNCTIONS

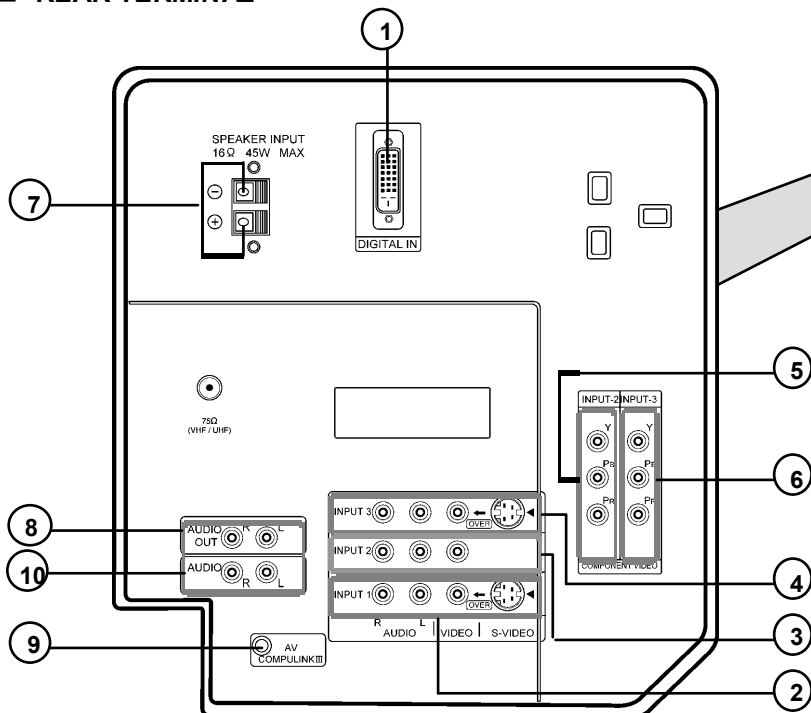
■ FRONT CONTROL KEY & TERMINAL



- | | |
|---|---------------------------------------|
| ① | MENU Button (OPERATE ▼) |
| ② | CHANNEL -/+ Button (OPERATE ◀▶) |
| ③ | VOLUME -/+ Button |
| ④ | MAIN POWER SW Button |
| ⑤ | POWER LAMP (Blue) |
| ⑥ | INPUT4
(AUDIO / VIDEO / S-VIDEO) |

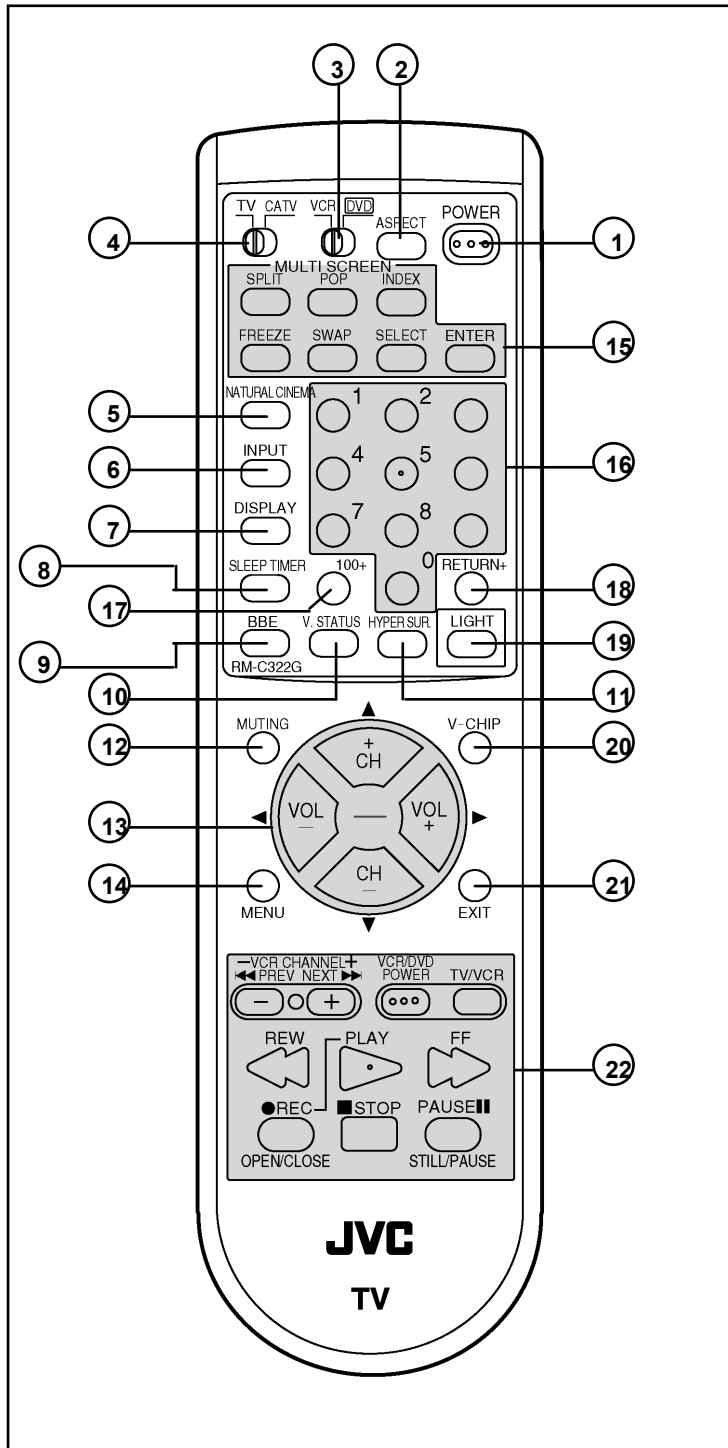


■ REAR TERMINAL



- | | |
|---|---|
| ① | DIGITAL IN
(DVI-D Signal Link 19pin) |
| ② | INPUT 1
(AUDIO / VIDEO / S-VIDEO) |
| ③ | INPUT 2
(AUDIO / VIDEO) |
| ④ | INPUT 3
(AUDIO / VIDEO / S-VIDEO) |
| ⑤ | INPUT 2
(COMPONENT VIDEO) |
| ⑥ | INPUT 3
(COMPONENT VIDEO) |
| ⑦ | SPEAKER INPUT |
| ⑧ | AUDIO OUT |
| ⑨ | AV COMPULINK III |
| ⑩ | AUDIO INPUT (For DIGITAL IN) |

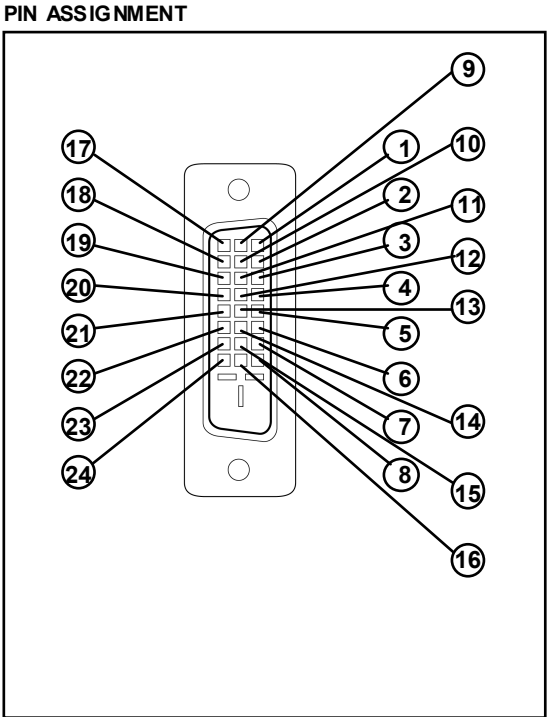
■ REMOTE CONTROL UNIT [RM-C322G]



- ① POWER Key
- ② ASPECT Key
- ③ VCR / DVD Switch
- ④ TV / CATV Switch
- ⑤ NATURAL CINEMA Key
- ⑥ INPUT Key
- ⑦ DISPLAY Key
- ⑧ SLEEP TIMER Key
- ⑨ BBE Key
- ⑩ V.STATUS Key
- ⑪ HYPERSURROUND Key
- ⑫ MUTING Key (memory Key)
- ⑬ Function Keys (▲ / ▼ / ► / ◄)
- ⑭ MENU Key
- ⑮ MULTI SCREEN operation Keys
- ⑯ Number Keys
- ⑰ 100+ Key
- ⑱ RETURN+ Key
- ⑲ LIGHT Key
- ⑳ V-CHIP Key
- ㉑ EXIT Key
- ㉒ VCR / DVD operation Keys

DIGITAL-IN TERMINAL FUNCTIONS

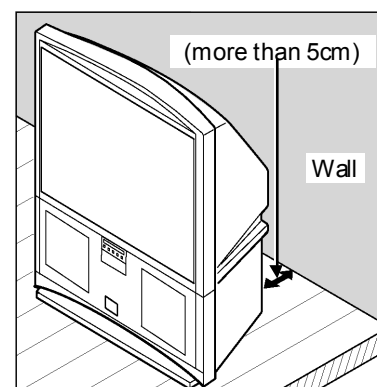
PIN No.	PIN NAME	PIN No.	PIN NAME
1	RX2-	13	RX3+
2	RX2+	14	5V
3	GND2/ 4	15	GND
4	RX4-	16	HTPLG
5	RX4+	17	RX0-
6	SCL	18	RX0+
7	SDA	19	GND0/5
8	NC	20	RX5-
9	RX1-	21	RX5+
10	RX1+	22	GNDC
11	GND1/3	23	TXC+
12	RX3-	24	TXC-



INSTALLATION

1. INSTALLATION SITE

1. The rear of this set is provided with ventilation openings. Install the set more than 5 cm from a wall and in a location with good ventilation.
2. Avoid the following types of locations.
 - (1) Unstable locations (location must be able to withstand heavy weight).
 - (2) Locations subjected to direct sunlight.
 - (3) Near stoves or other heating devices.
 - (4) Locations subjected to humidity or oily smoke.
 - (5) Dusty locations.
 - (6) Locations with strong vibration.



VENTILATION OPENING

2. INSTALLATION ADJUSTMENT

When installing, moving or changing the orientation of the set, perform static convergence adjustment according to the following procedure.

1. Press the MENU key of the remote control unit.
2. Select the "CONVERGENCE" in the INITIAL SETUP menu with Function ▲/▼ key.
3. Press the Function ◀/▶ key, the convergence adjustment screen appears with crosses (+) displayed in 9 locations.

Locations where the crosses appear in 3 colours:

Convergence adjustment is required. Perform steps 4 to 5.

Locations where the crosses are white:

The convergence is adjusted correctly.

- If all the crosses are white, no convergence adjustment is needed.

4. The locations of the crosses correspond to the positions of the number keys on the remote control. A box appears around the selected cross.
5. Press the SELECT button to change the color of the box to the color of the cross you want to adjust (red or blue).
 - You cannot adjust the green cross.
6. Use the ▲/▼ and ◀/▶ buttons to adjust the position of the cross.
 - To cancel the adjustments before completing the procedure, press the EXIT button.
7. Press the ENTER button to end the convergence adjustment procedure.
 - If you do not use the TV controls for roughly one minute, the convergence adjustment screen automatically disappears.

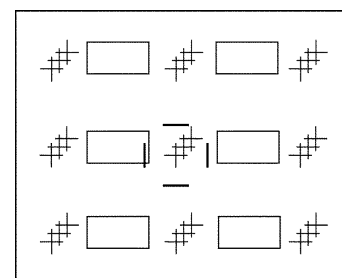


Fig.1

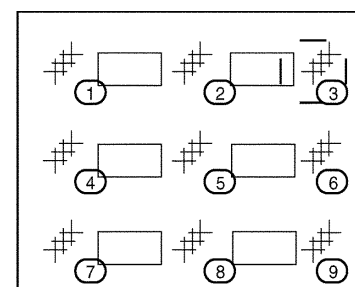


Fig.2

TECHNICAL INFORMATION

■ MAIN MICRO COMPUTER (CPU) FUNCTION

(MIN102H57K)

PIN No.	PIN NAME	I/O	FUNCTION
1	CONV. SW	0	CONVERGENCE SW
2	/VSYNC	I	V.SYNC IN for OSD
3	LB PRO	I	LOW B Protection
4	NC	—	NC
5	/RST	I	Micon Reset input
6	CONV. BUSY	0	CONV.
7	/TEST	I	+3.3V
8	YS	0	OSD YS OUT
9	NC	0	Micon test pin
10	NC	0	NC
11	A_MUTE	0	TV Sound Muting
12	/HSYNC	I	H.sync input for OSD
13	M_MUTE	0	Monitor Out Muting
14	OSDXI	—	_____
15	OSDXO	—	_____
16	SDA2	0	I ² C BUS (SDA) for MTS
17	AC_IN	I	AC 50/60Hz in
18	SCL2	0	I ² C BUS (SCL) for MTS
19	TU_POW	0	Tuner Power Control
20	VCOI	I	LPF input
21	PDO	0	LPF output
22	/IP_RESET	0	_____
23	YM	0	OSD YM out
24	B	0	OSD Blue out
25	LED_POWER	0	LED for Power
26	G	0	OSD Green Out
27	R	0	OSD Red Out
28	VREF	I	_____
29	IP_ERR	I	AMDP program load det.
30	IREF	I	_____
31	COMP	I	_____
32	AVDD	I	+3.3V
33	CLL	I	For Sub CCD
34	VREFLS	I	STD VOL in for Sub CCD
35	SUB_CCD	I	For Sub CCD
36	NC	—	NC
37	VSS	I	GND
38	MAIN_CCD	I	For main CCD
39	VREFHS	I	STD VOL in for CCD
40	CLH	I	For main CCD
41	VDD	0	+3.3V
42	LED_DATA	0	Front control Data

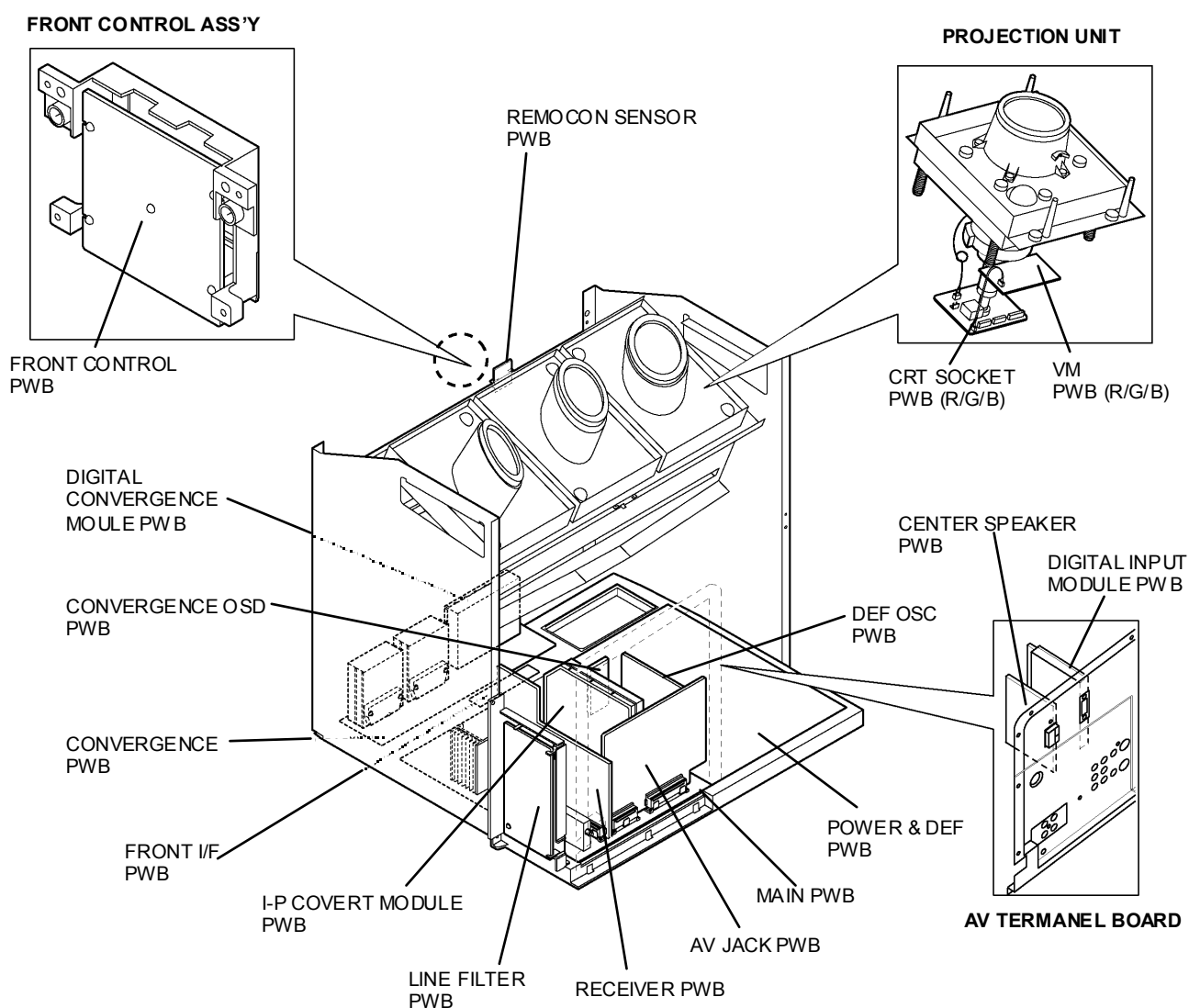
PIN No.	PIN NAME	I/O	FUNCTION
43	LED_CLOCK	0	F. LED CLK
44	LED_ON_TIMER	0	LED on timer
45	SBO0	—	_____
46	SBD0	—	_____
47	AP DATA	—	_____
48	INC	—	_____
49	ECO_RST	0	Eco Reset
50	ROT COIL L	0	Picture rotation
51	ROT COIL R	0	Picture rotation
52	H_BLK	0	H.BLK
53	SN COIL_R	0	Terrestrial Magnetism Sensor
54	SN COIL_L	0	↑
55	BS POW	0	BS power control
56	I ² C STOP	0	I ² C BUS STOP
57	NC	—	_____
58	/LOB_POW	0	LOB power control
59	COMPULINK	I	AV Compulink III Input
60	/POWERGOOD	I	Power Condition Check
61	/MECA_ON	I	Machine SW Interrupt
62	/MAIN_POW	0	MAIN POWER CONTROL
63	NC	—	NC
64	/B1 POW	0	B1 POWER CONTROL
65	C / N	—	_____
66	X-RAY	I	X-ray detection
67	EE CDS	—	_____
68	KEY2	I	Front Key input 2
69	KEY1	I	Front Key input 1
70	SCL1	0	I ² C BUS (CLK) for E ² PROM
71	SDA1	I/O	I ² C BUS (SDA) for E ² PROM
72	REMO	I	Remocon IN
73	AP REQ	—	_____
74	VSS	I	GND
75	OSC2	0	4MHz OSC
76	OSC1	I	4MHz OSC
77	VDD	I	+3.3V
78	SCL0	0	I ² C BUS (CLK) for General
79	AP CLK	—	_____
80	SDA0	I/O	I ² C BUS (SDA) for General
81	NC	—	_____
82	NC	—	_____
83	NC	—	NC
84	P MUTE	0	Picture muting

MAIN PARTS LOCATION

■ PWB ASS'Y ARRANGEMENT

The PWB ASS'Y is indicated below.

- MAIN PWB ASS'Y (SSB-1053A-M2)
- POWER & DEF PWB ASS'Y (SSB-2053A-M2)
- R CRT SOCKET PWB ASS'Y (SSB-3153A-M2)
- G CRT SOCKET PWB ASS'Y (SSB-3253A-M2)
- B CRT SOCKET PWB ASS'Y (SSB-3353A-M2)
- R VM PWB ASS'Y (SSB-7153A-M2)
- G VM PWB ASS'Y (SSB-7253A-M2)
- B VM PWB ASS'Y (SSB-7353A-M2)
- FRONT CONTROL PWB ASS'Y (SSB0L053A-M2)
- REMOCON SENSOR PWB ASS'Y (SSB-8053A-M2)
- DIGITAL INPUT MODULE PWB ASS'Y (SSB-7853A-M2)
- CONVERGENCE PWB ASS'Y (SSB-5053A-M2)
- CONVERGENCE OSD PWB ASS'Y (SSB0T053A-M2)
- CENTER SPEAKER PWB ASS'Y (SSB0A053A-M2)
- DIGITAL CONVERGENCE MODULE PWB ASS'Y
(Included in CONVERGENCE PWB)
- LINE FILTER PWB ASS'Y (SSB-9053A-M2)
- DEF OSC PWB ASS'Y (SSB0H053A-M2)
- I-P CONVERT MODULE PWB ASS'Y (SSB0D053A-M2)
- FRONT I/F PWB ASS'Y (SSB0L253A-M2)
- AV JACK PWB ASS'Y (SSB0J053A-M2)
- RECEIVER PWB ASS'Y (SSB0R253A-M2)



(This figure is only MAIN UNIT)

SPECIFIC SERVICE INSTRUCTIONS

SCREEN HANDLING CAUTIONS

■ SCREEN STORAGE

Store the SCREEN ASS'Y in a standing position in order to avoid deformation. If the screen is stored horizontally, there is risk of deforming the screen face.

When necessary to place the SCREEN ASS'Y horizontally, position the screen side upwards and sure to place spacers between the screen and resting site (floor or stand etc.) to prevent the screen from sagging.

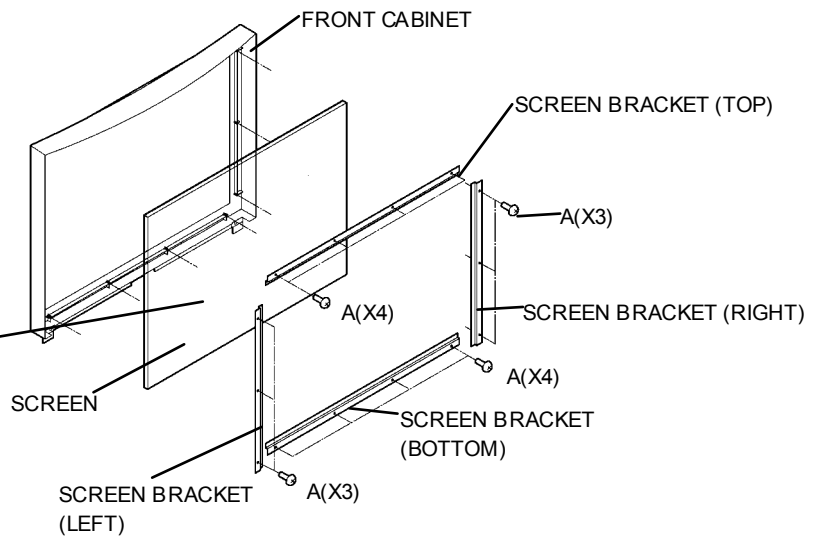
■ SCREEN SURFACE

Since the screen surface is easily scratched or soiled, use ample care when handling.

■ DISASSEMBLY PROCEDURE

If the screen or screen panel need to be replaced, remove the A screws

Leave the screen with fresnel lens and double lenticular lens attached. If cannot be disassembled further.



PROJECTION UNIT REPLACEMENT

■ ADJUSTMENT DURING REPLACEMENT

When replacing the three R, G and B projection units, first replace the R and B units and perform focus / screen / raster centering adjustments with reference to the G unit. Then replace the G unit and perform G focus / screen / convergence adjustment. Finally perform R & B . Convergence adjustments. **Use care to simultaneously removes all three-projection units.**

■ DISASSEMBLY CAUTION

The projection units include locations that are not to be disassembled during service. When replacing projection unit parts, disassemble to the state indicated in the figure below.

The figure indicates screws and wires that are not to be removed. Use care not to remove these.

- Deflection yoke wires : to connector on POWER & DEF. PWB ASS'Y. [R="RHV", G="GHV", B="BHV"]
- Convergence yoke wires : to connector on CONVERGENCE PWB ASS'Y [R="R", G="G", B="B"]

Check that tape is applied to the CRT neck.
If absent, the deflection yoke can dislodge.

Do not remove screws

LENS ASS'Y

LENS ASS'Y SCREW (X 4)

PC MAGNET

PC MAGNET TAPE

R CRT SOCKET PWB ASS'Y
G CRT SOCKET PWB ASS'Y
B CRT SOCKET PWB ASS'Y

VM PWB PWB (R/G/B)

● ANODE wires : to DIVIDER

DEF. / CONVER. YOKE

CRT ASS'Y (COUPLER ASS'Y)

Do not disassembly

DISASSEMBLY PROCEDURE

■ SPEAKER GRILLE

1. Remove 4 screws **A** from rear side.
2. Open the door of the FRONT CONTROL BOX and remove 2 screws **A'** from front side.
3. Remove the SPEAKER GRILLE.

■ SPEAKER (WOOFER)

- Remove the SPEAKER GRILLE

 1. Remove 4 screws **B**.
 2. Take out the WOOFER.
 3. Disconnect the speaker wire from speaker terminal.

■ SPEAKER (TWEETER)

- Remove the SPEAKER GRILLE

 1. Remove 2 screws **C**.
 2. Take out the TWEETER.
 4. Disconnect the speaker wire from speaker terminal.

■ FRONT BOARD

- Remove the SPEAKER GRILLE.

 1. Remove 4 screws **D**.
 2. Remove the FRONT BOARD.

■ FRONT CONTROL BOX

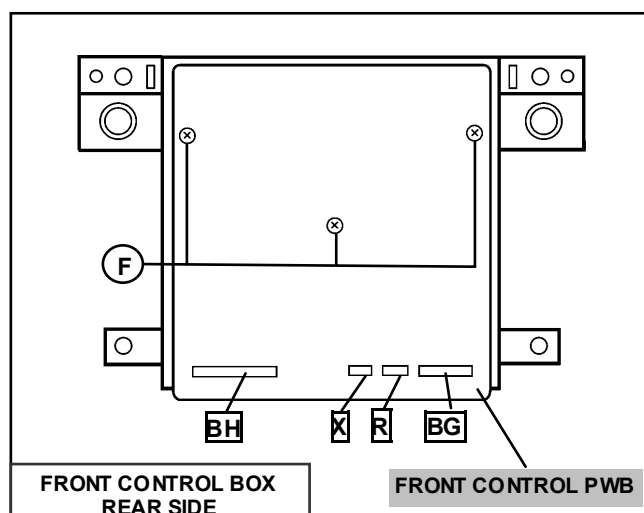
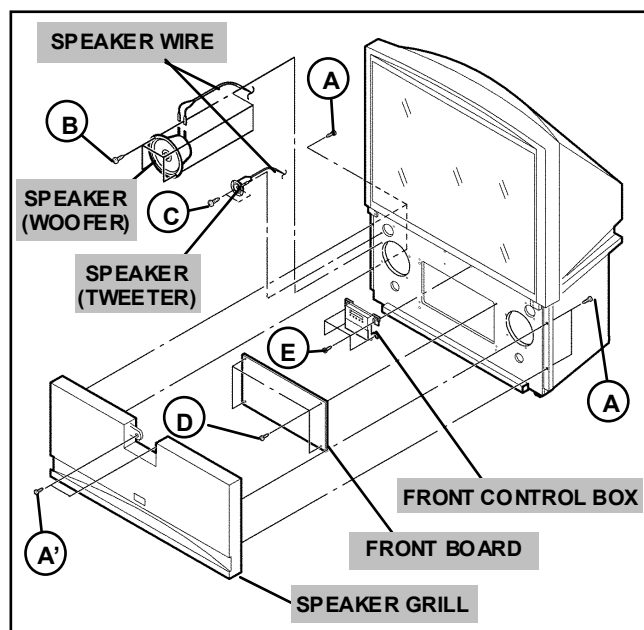
- Remove the SPEAKER GRILLE.

 1. Remove 4 screws **E** attaching the FRONT CONTROL BOX.
 2. Disconnect the connector **BH**, **X**, **R**, **BG** on the FRONT CONTROL PWB.
 3. Remove the FRONT CONTROL BOX.

■ FRONT CONTROL PWB

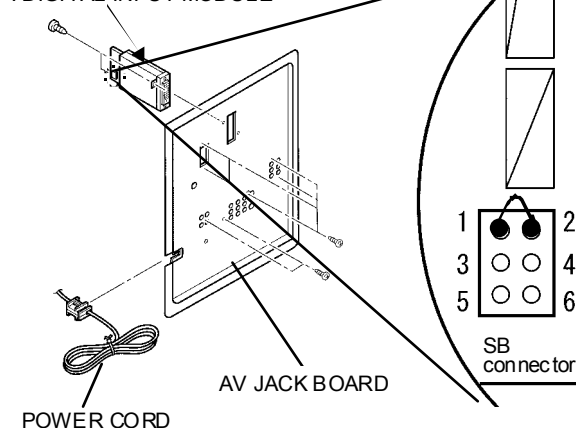
- Remove the SPEAKER GRILLE.
- Remove the FRONT CONTROL BOX.

 1. Remove 3 screws **F** from rear side of FRONT CONTROL BOX.
 2. Remove the FRONT CONTROL PWB.



CAUTION AT DISASSEMBLY

56WP30CP-S
: DIGITAL INPUT MODULE



- Prior to disassembly, unplug the power cord from the AC outlet without fail. (Turn the power "off".)
- Short the SB connector (1) pin and (2) pin of the DIGITAL INPUT MODULE. (At the time of assembling)
- Before the rear panel is inserted into the cabinet, release the short-circuit between the SB connector (1) pin and (2) pin of the DIGITAL INPUT MODULE.
- After releasing the short-circuit between the SB connectors, do not turn the power on until the rear panel is inserted into the cabinet.

* Negligence in carrying out the above steps may cause the inactivation of the TV.

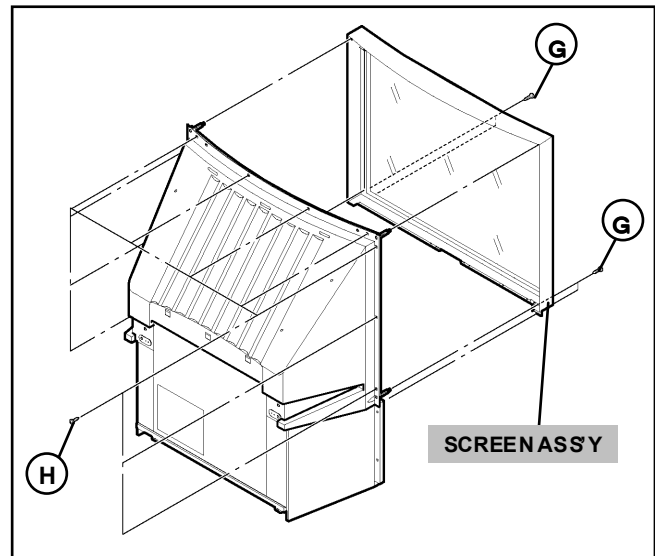
■ SCREEN ASS'Y

- Remove the SPEAKER GRILLE.
- Remove the FRONT CONTROL BOX.

 1. Remove 4 screws **G** under the SCREEN ASS'Y from front side.
 2. Remove 10 screws **H** from rear side.
 3. Remove the SCREEN ASS'Y.

NOTE :

- Place the screen with face upwards on a flat stand.
- Because of the large size, at least two persons are recommended for removal and reassemble.
- Use care not to scratch the screen during work.
- During assembly, be sure to engage the left and right tabs with the cabinet mounting positions.
- When transporting the SCREEN ASS'Y, avoid grasping the top of the screen panel, instead grasp the left and right areas.



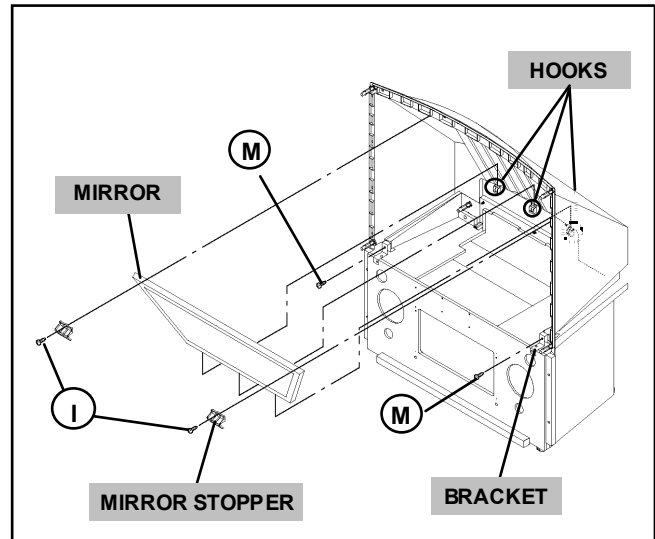
■ MIRROR

- Remove the SPEAKER GRILLE.
- Remove the FRONT CONTROL BOX.
- Remove the SCREEN ASS'Y.

 1. Remove 2 screws **I** attaching the mirror stopper.
 2. Raise slightly to disengage of the mirror from the hooks.
 3. Remove the MIRROR.

NOTE :

- The MIRROR is front-coated. Do not touch the front of the MIRROR.
- At least 2 persons are recommended for removable and reassemble.



■ REAR PANEL

1. Loosen 7 screws **J**.
2. Remove 4 screws **K**.
3. Raise slightly REAR PANEL upward.
4. Remove the REAR PANEL.

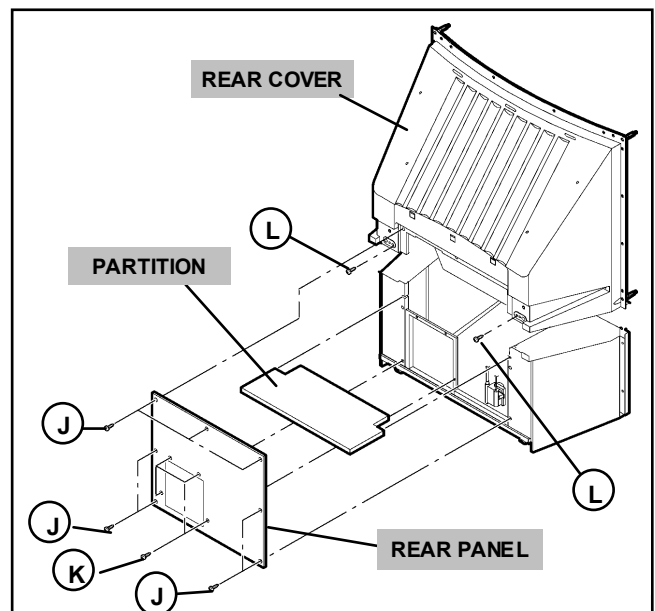
NOTE :

- Before the rear panel is inserted into the cabinet, release the short-circuit between the SB connector (1) pin and (2) pin of the digital input unit. (Refer to "CAUTION AT DISASSEMBLY" on Page 11).
- After releasing the short-circuit between the SB connectors, do not turn the power on until the rear panel is inserted into the cabinet.

■ REAR COVER

- Remove the SPEAKER GRILLE.
- Remove the FRONT CONTROL BOX.
- Remove the SCREEN ASS'Y.

 1. Remove 2 screws **L**.
 2. Remove 2 screws **M** from front side
 3. Slightly pull for back side to disengage of the REAR COVER from hooks.
 4. Remove the REAR COVER.



⚠ Prior to starting the work, be sure to read the following written instructions on the CAUTION LABEL attached to the REAR PANEL.

UNPLUG THE POWER CORD FROM AC OUTLET BEFORE OPEN THE REAR COVER (PANEL).
When the rear cover (panel) is removed, follow "CAUTION AT DISASSEMBLY" procedure in the service manual before plugging the TV's power cord into an AC outlet.
Failure to follow the procedure will result in PERMANENT damage to some of the television features.

■ PARTITION

- Remove the REAR PANEL.
1. Pull out the PARTITION back ward.

■ MAIN UNIT

- Remove the SPEAKER GRILLE.
 - Remove the connector **BH** , **X** , **R** , **BG** on the FRONT CONTROL PWB.
 - Remove the REAR PANEL.
1. Remove 4 screws **O** from front side.
 2. Pull out the MAIN UNIT rear side.

NOTE :

- Except for confirmation of projection of images on the screen and audio output through the speakers, the removed main unit is still workable in the same state as if it is still built in the TV set. Therefore, the main unit can be removed, if necessary, for board diagnosis, electric testing, etc. apart from confirmation of screen images and audio output.
- When wire clamps are removed during work, use care to restore them precisely to their original positions. Performance can be affected if these are not returned to the original positions.
- Because of the large size, at least two persons are recommended for removal and reassemble.
- When carrying the main unit, use care not to drop, shock or shake it.
- Do not stain or damage the lens of the projection unit.
- Do not look through the projection unit.

◆ CHECKING THE P.W. BOARD

When checking the MAIN PWB, POWER & DEF PWB, etc., raise the MAIN UNIT with the HV DIVIDER side down for the sake of convenience. You can checking the MAIN PWB.

■ LINE FILTER PWB

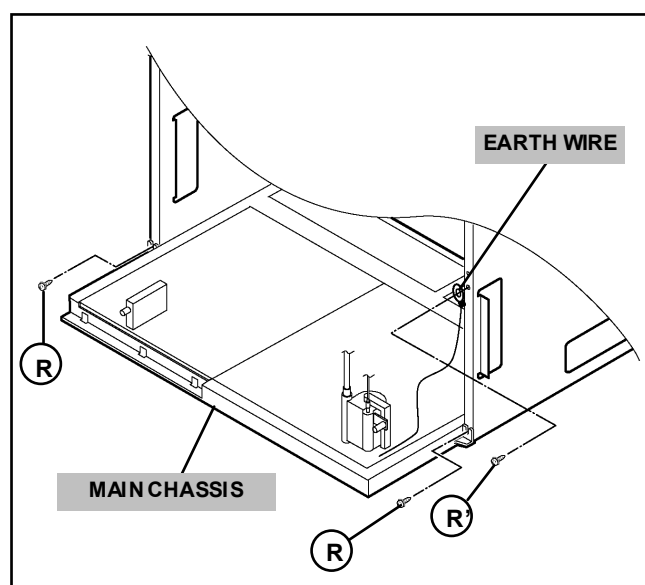
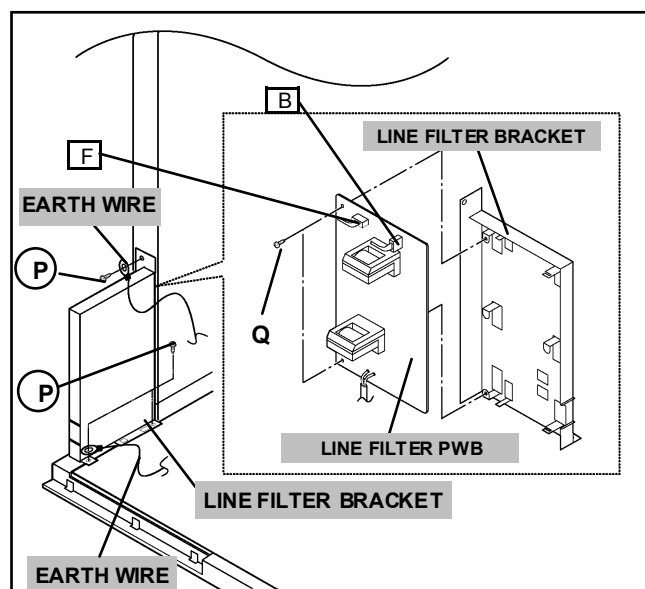
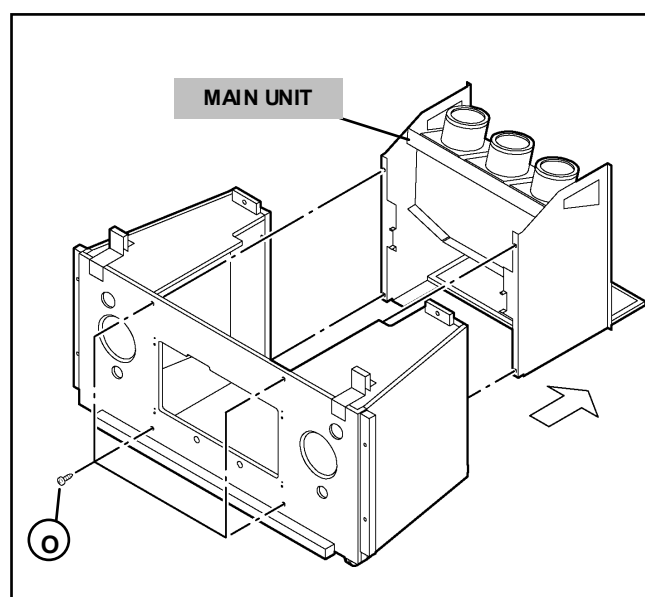
- Remove the REAR PANEL.
 - Remove the AV JACK BOARD.
1. Disconnect the connector **B** **F** on the LINE FILTER PWB.
 2. Remove 3 screws **P** attaching the LINE FILTER BRACKET and earth wire.
 3. Remove 2 screws **Q** attaching LINE FILTER PWB.
 4. Remove the LINE FILTER PWB.

■ MAIN CHASSIS

- Remove the REAR PANEL.
 - Remove the AV JACK BOARD.
 - Remove the LINE FILTER BRACKET.
1. Remove 2 screws **R** both side of the MAIN CHASSIS.
 2. Remove 1 screws **R'** attaching the earth wire.
 3. Pull out the MAIN CHASSIS for back side.

NOTE :

- If necessary, remove the anode wires, connectors, respectively.

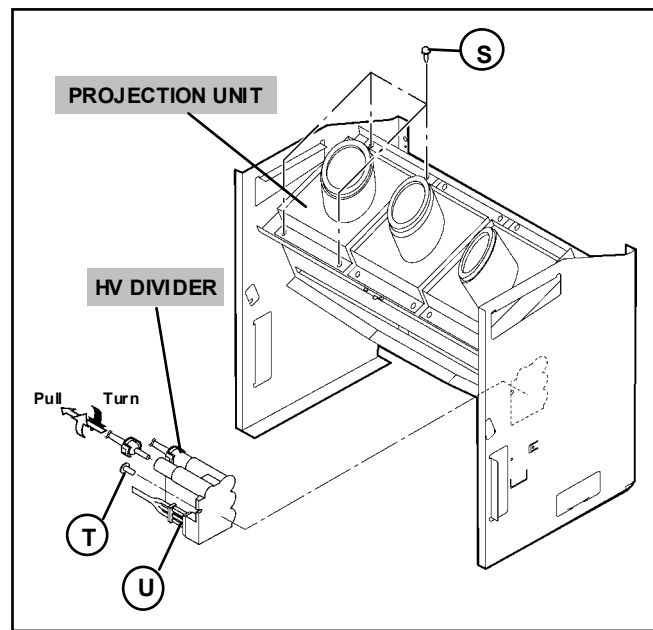


■ PROJECTION UNIT

- Remove the SPEAKER GRILLE
 - Remove the FRONT CONTROL BOX
 - Remove the REAR PANEL
 - Remove the MAIN UNIT.
1. Remove the CRT SOCKET PWB.
 2. Remove 4 screws **S** attaching the PROJECTION UNIT.
 3. Pull out the PROJECTION UNIT, upward.

NOTE :

- Refer to "PROJECTION UNIT REPLACEMENT" on page 10 when taking out and replacing the PROJECTION UNIT.
- When wire clamps are removed during work, use care to restore them precisely to their original positions. Performance can be affected if these are not returned to the original positions.



■ HV DIVIDER

- Remove the REAR PANEL
1. Remove 1 screws **T** attaching the HV DIVIDER.
 2. Remove the HV DIVIDER.
- * Wires of the transformer (FBT) and CRT of each PROJECTION UNIT can be removed by turning the connector portions.

NOTE :

- If necessary, remove the anode wires, and replacing the HV DIVIDER, take care to correctly engage the **U** connector.

■ AV JACK BOARD

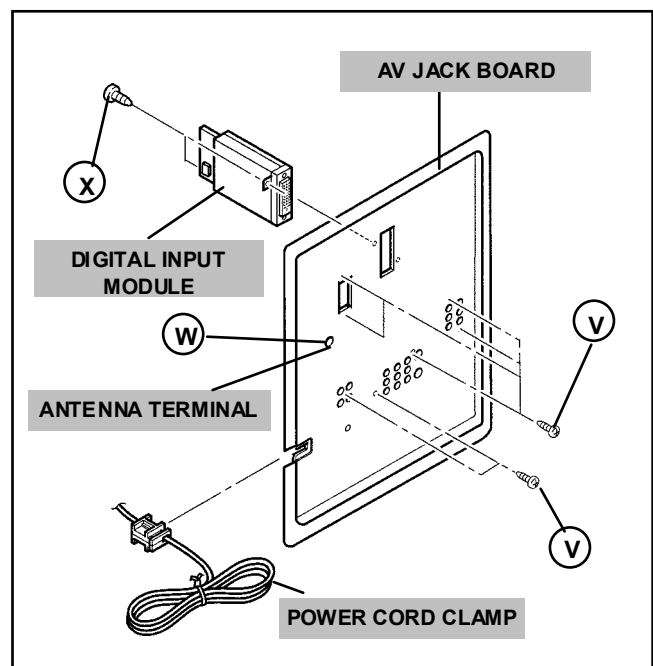
- Remove the REAR PANEL
1. Remove 7 screws **V**.
 2. Pull out the POWER CORD CLAMP from AV JACK BOARD left side.
 3. Remove nut **W** attaching the antenna terminal.
 4. Remove the AV JACK BOARD.

■ DIGITAL INPUT MODULE

- Remove the REAR PANEL
1. Remove 2 screws **X** from rear side of the AV JACK BOARD.
 2. Remove the DIGITAL INPUT MODULE.

NOTE :

- When removing the DIGITAL INPUT MODULE, refer to the "CAUTION AT DISASSEMBLY" section on page 11.



REPLACEMENT OF CHIP COMPONENT

■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

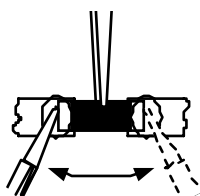
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

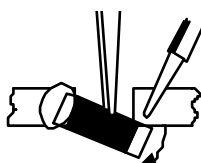
1. How to remove Chip parts

◆ Resistors, capacitors, etc

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with tweezers and remove the chip part.

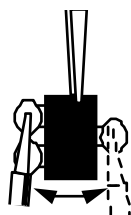


◆ Transistors, diodes, variable resistors, etc

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

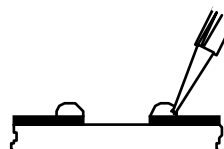


Note : After removing the part, remove remaining solder from the pattern.

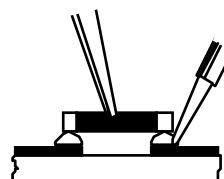
2. How to install Chip parts

◆ Resistors, capacitors, etc

- (1) Apply solder to the pattern as indicated in the figure.

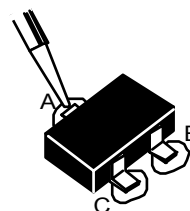


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

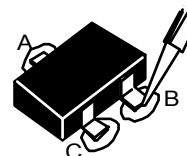


◆ Transistors, diodes, variable resistors, etc

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



MEMORY IC REPLACEMENT

1. Memory IC

This model use a memory IC.

This memory IC stores data for proper operation of the video and deflection circuits.

When replacing, be sure to use an IC containing this (initial value) data.

2. Memory IC replacement procedure

(1) Power off

Switch off the power and disconnect the power cord from the wall outlet.

(2) Replace the memory IC

Initial value must be entered into the new IC.

(3) Power on

Connect the power cord to the wall outlet and switch on the power.

(4) SERVICE MENU setting

1) Press **SLEEP TIMER** key and, while the indication of **SLEEP TIMER 0 MIN** is being displayed, press **DISPLAY** key and **VIDEO STATUS** key on the remote control unit (Fig.2) simultaneously.

2) The SERVICE MENU screen of Fig.1 is displayed.

3) Verify what to set in the SERVICE MENU, and set whatever is necessary (Fig.1).
Refer to the SERVICE ADJUSTMENT for setting.

4) Press the EXIT key twice to return normal screen.

(5) Receive channel setting

Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.

(6) User settings

Check the user setting items according to after page.

Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.

SERVICE MENU

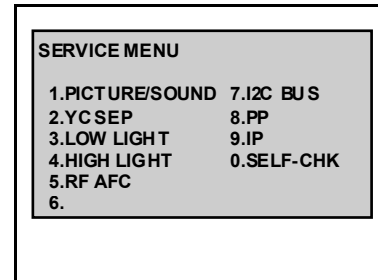


Fig.1

SERVICE MENU SELECT KEY

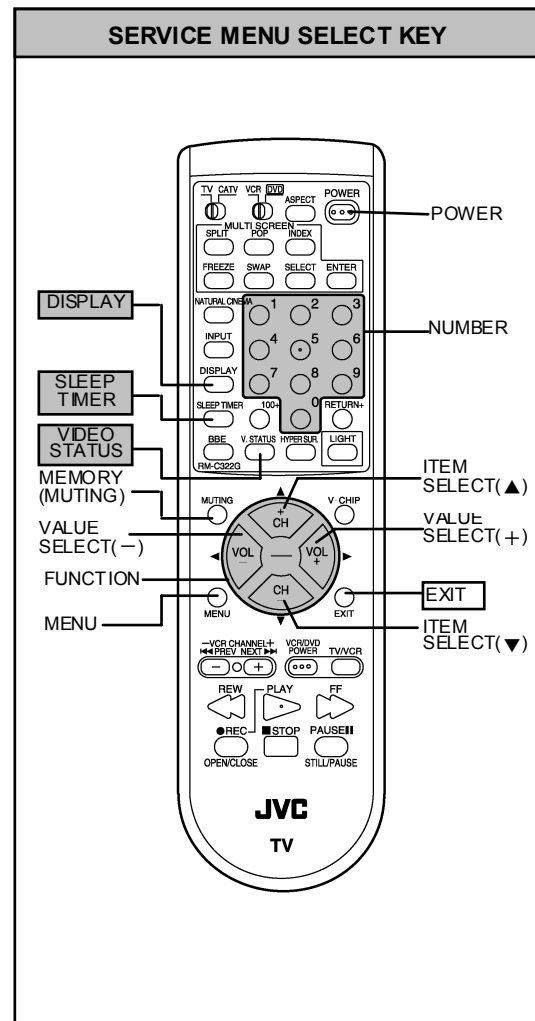


Fig.2

SHIPPING FACTORY SETTING

VIDEO STATUS MEMORY (NT SC / 480p)

Item	SETTING VALUE				
	TINT	COLOR	PICTURE	BRIGHT	DETAIL
STANDARD	00	00	00	00	00
THATER	00	00	00	00	00
DYNAMIC	00	00	+10	00	+1

(HD)

Item	SETTING VALUE				
	TINT	COLOR	PICTURE	BRIGHT	DETAIL
STANDARD	00	00	00	00	00
THATER	00	00	00	00	00
DYNAMIC	00	00	+2	00	00

CHANNEL SETTING (CHANNEL SUMMARY)

BAND	CH Display		Setting	BAND	CH Display		Setting
VHF _L	02		○	SUPER	N	27	
	03				O	28	○
	04		○		P	29	
	05		○		Q	30	
	06		○		R	31	○
VHF _H	07		○		S	32	○
	08				T	33	
	09		○		U	34	
	10				V	35	
	11		○		W	36	○
	12			SUBMID	A-7	93	
UHF	13		○		A-6	394	
	14		○		A-5	95	
	36		○		A-4	96	○
	41				A-3	97	○
	46				A-2	98	○
MID	63		○		A-1	99	
	69		○		A-8	01	
	A	14	○	HYPER	W+11	47	○
	B	15	○		W+12	48	○
	C	16	○		W+17	53	○
	D	17	○				
	E	18	○		W+23	59	○
	F	19		ULTRA			
	G	20			W+29		
SUPER	H	21	○				
	I	22			W+51		
	J	23					
	K	24	○		W+78		
	L	25					
	M	26			W+84		

**SHIPPING FACTORY SETTING
(USER SETTING)**

Setting item	Setting value	Setting item	Setting value
POWER CHANNEL BBE VOLUME INPUT	OFF CABLE-02 ON 10 TV	TINT / COLOR / PICTURE /BRIGHT / DETAIL	Refer to setting of Video status memory at shipping factory setting
DISPLAY NATURAL CINEMA SLEEP TIMER ASPECT VIDEO STATUS	OFF AUTO 0 REGULAR DYNAMIC	COLOR TEMPERATURE DIG. NOISE CLEAR	HIGH CENTER
HYPER SURROUND	OFF	NOISE MUTING BASS / TREBLE / BALANCE MTS	ON CENTER STEREO
SPLIT SOURCE	LEFT SIDE : CH 02 RIGHT SIDE : CH 04	SET CLOCK ON / OFF TIMER LANGUAGE CLOSED CAPTION FRONT PANEL LOCK	Unnecessary to set NO ENG OFF (CC1 / T1) OFF
POP SOURCE	LEFT SIDE : CH 02 RIGHT UPPER : CH 04 RIGHT CENTER : CH 05 RIGHT BOTTOM : CH 07	AUTO SHUT OFF AUTO TUNER SET UP DIGITAL-IN (at 480p signal input)	OFF Unnecessary to set SIZE 1
VERTICAL POSITION CENTER CH INPUT XDS ID CONVERGENCE POWER INDICATOR	CENTER OFF ON OPTIMUM CONDITION HIGH	CHANNEL SUMMARY V-CHIP SET LOCK CODE AUTO DEMO	Refer to Last memory (CH. summary) OFF Unnecessary to set OFF

SERVICE ADJUSTMENTS

ADJUSTMENT PREPARATION

1. You can make the necessary adjustments for this unit with either the Remote Control Unit or With the adjustment tools and parts as given below.
2. Adjustment with the Remote Control Unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.
3. Make sure that AC power is turned on correctly.
4. Turn on the power for set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
6. **Never touch any adjustment setting value which are not specified in the list for this adjustment.**
7. Presetting before adjustment
Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit:

ADJUSTMENT EQUIPMENT

1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator)
[NTSC / 480i / 480p / 720p / 1080i / HDCP]
4. Remote control unit
5. TV audio multiplex signal generator
6. Frequency counter

ADJUSTMENT ITEMS

Adjustment items	
1	Check (× 3)
2	HORIZONTAL FREQUENCY adjustment
3	FOCUS & BEAM SPOT adjustment
4	CONVERGENCE & DEFLECTION adjustment
5	VIDEO adjustment
6	MTS adjustment

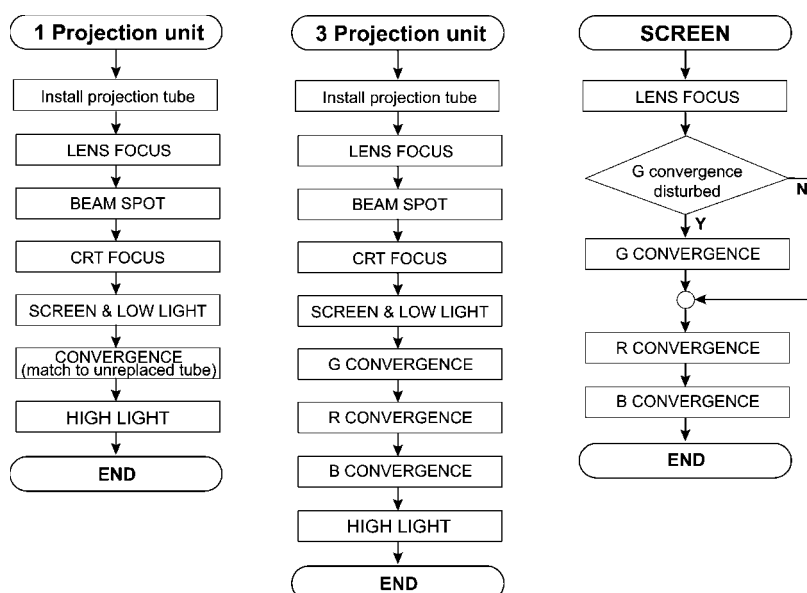
● SETTING POSITION

SETTING ITEM	SETTING POSITION	SETTING ITEM	SETTING POSITION
VIDEO STATUS	STANDARD	ASPECT	FULL
BASS, TREBLE, BALANCE	CENTER	VERTICAL POSITION	CENTER
HYPER SURROUND	OFF	BBE	ON
TINT, COLOR, PICTURE, BRIGHT, DETAIL	CENTER	ON/OFF TIMER	NO
COLOR TEMPERATURE	HIGH	AUTO SHUTOFF	OFF
DIGITAL NOISE CLEAR	CENTER		

ADJUSTMENT FLOWCHART

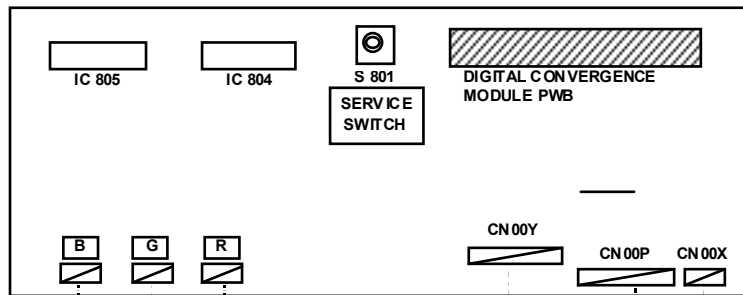
WHEN REPLACING SCREEN AND PROJECTION UNIT

- Contains only the main adjustments. Also confirm other adjustments as required.

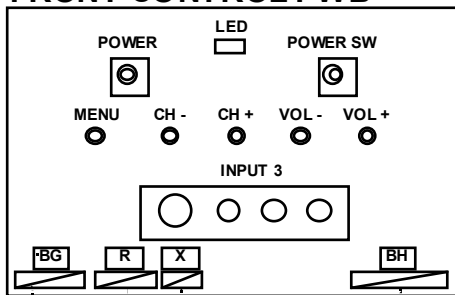


ADJUSTMENT LOCATION (1/2)

CONVERGENCE PWB



FRONT CONTROL PWB



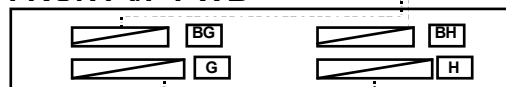
FRONT TOP

CONVERGENCE OSD PWB

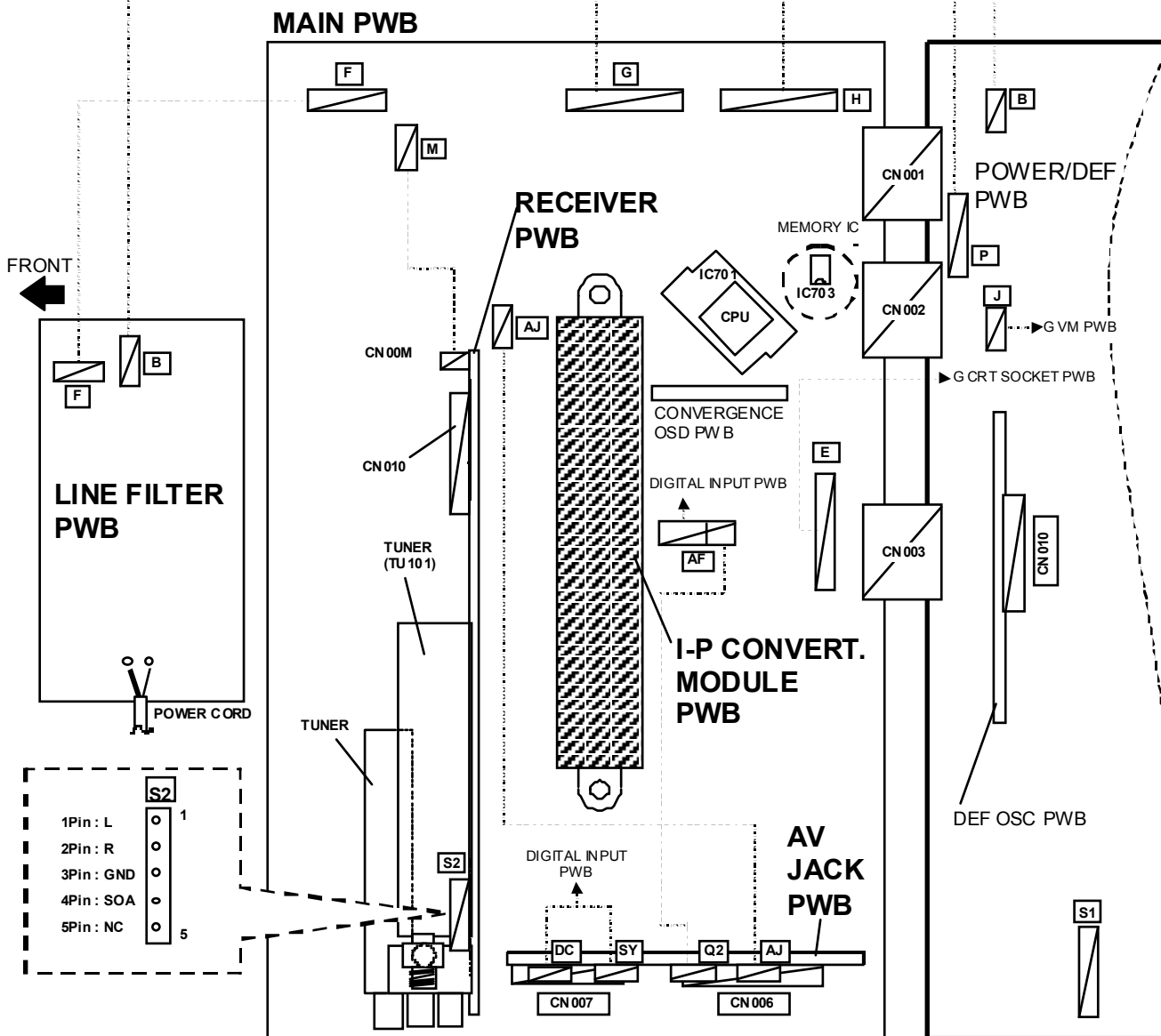
REMOCON SENSOR PWB

R/G/B CRT SOCKET PWB

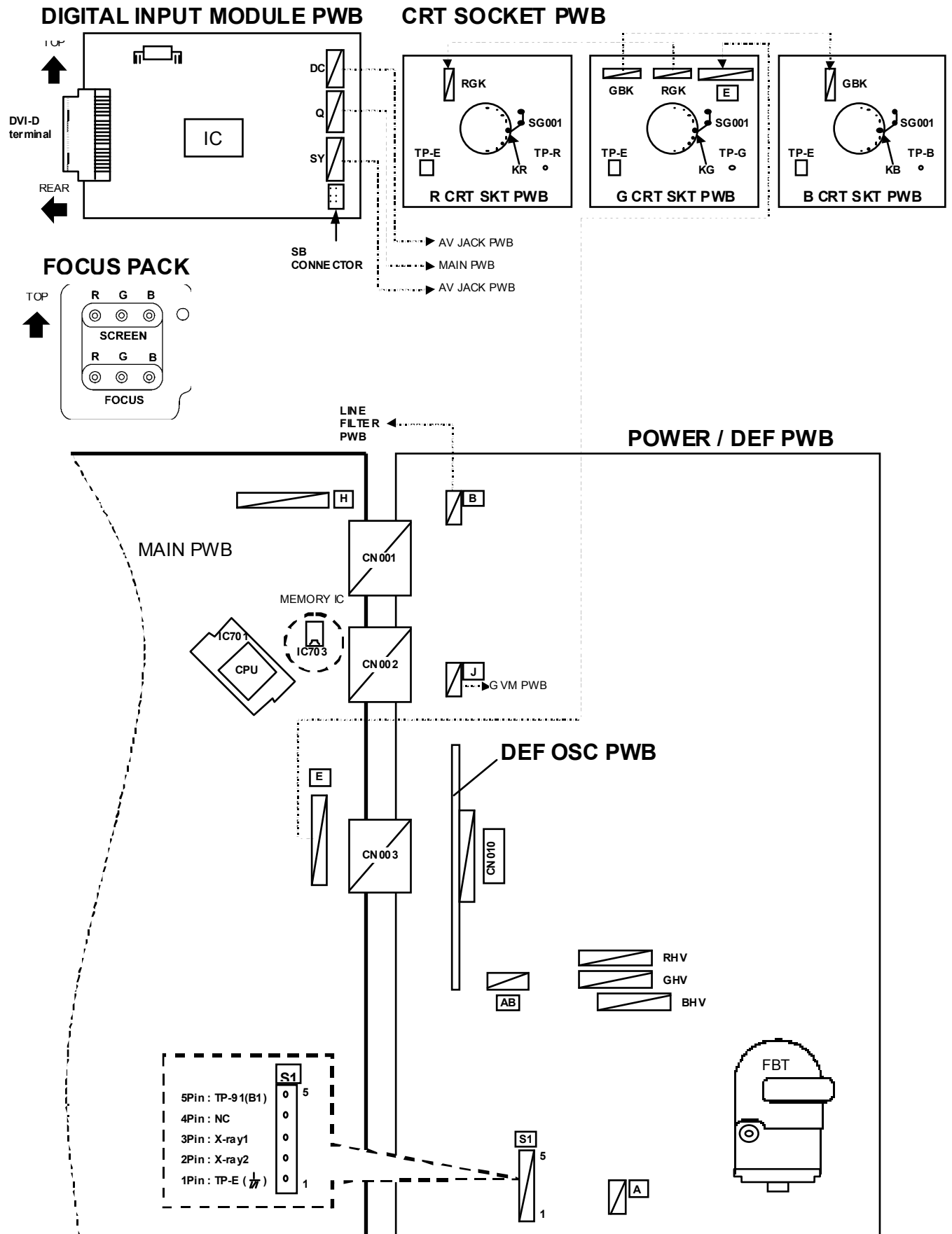
FRONT I/F PWB



MAIN PWB



ADJUSTMENT LOCATION (2/2)



BASIC OPERATION OF SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. SERVICE MENU ITEMS

In general, basic setting (adjustments) items or verifications are performed in the SERVICE MENU.

1. PICTURE / SOUND This sets the setting values of the VIDEO/CHROMA /AUDIO and DEFLECTION circuits.
2. YC SEP This is used when the YC mode is adjusted. **[Do not adjust]**
3. LOW LIGHT This sets the setting values of the WHITE BALANCE circuit.
4. HIGH LIGHT This sets the setting values of the WHITE BALANCE circuit.
5. RF AFC This is used when the IF VCO is adjusted. **[Do not adjust]**
6. (BLANK)
7. I2C BUS This is used when ON/OFF if the I²C BUS control is stop. **[Do not adjust]**
8. PP This sets the setting value of the output of P&P data.
9. IP This sets the setting value of the IP circuit. **[Do not adjust]**
0. SELF-CHK This sets the self checking of the TV circuit.

3. BASIC OPERATIONS OF THE SERVICE MENU

(1) How to enter the SERVICE MENU.

Press **SLEEP TIMER** key and, while the indication of "**SLEEP TIMER 0 MIN.**" is being displayed, press **DISPLAY** key and **VIDEO STATUS** key on the remote control unit simultaneously to enter the **SERVICE MENU** screen as shown in the fig.1.

(2) SERVICE MENU screen selection

Press the number key to select any of the following items.

- | | |
|-----------------|------------|
| 1.PICTURE/SOUND | 7.I2C BUS |
| 2.YC SEP | 8.PP |
| 3.LOW LIGHT | 9.IP |
| 4.HIGH LIGHT | 0.SELF-CHK |
| 5.RF AFC | |

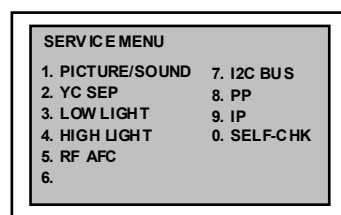


Fig. 1

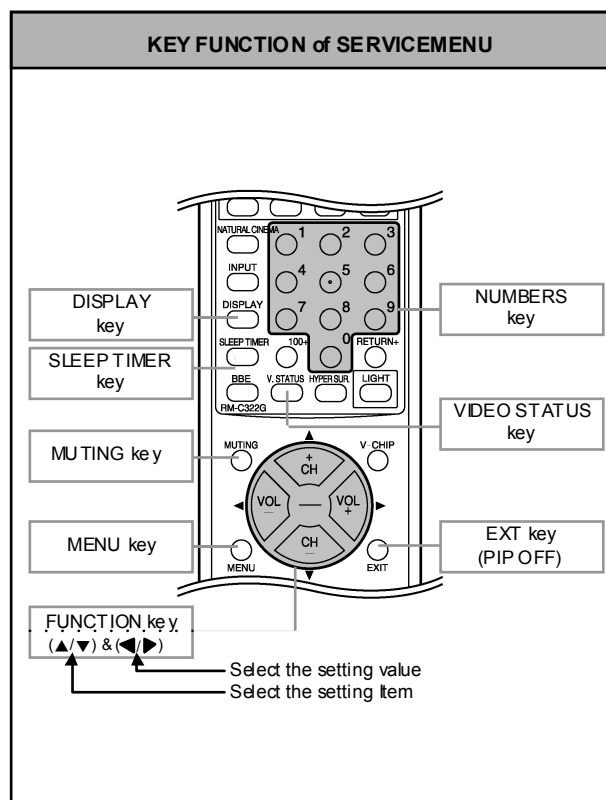
(3) Enter the any setting mode

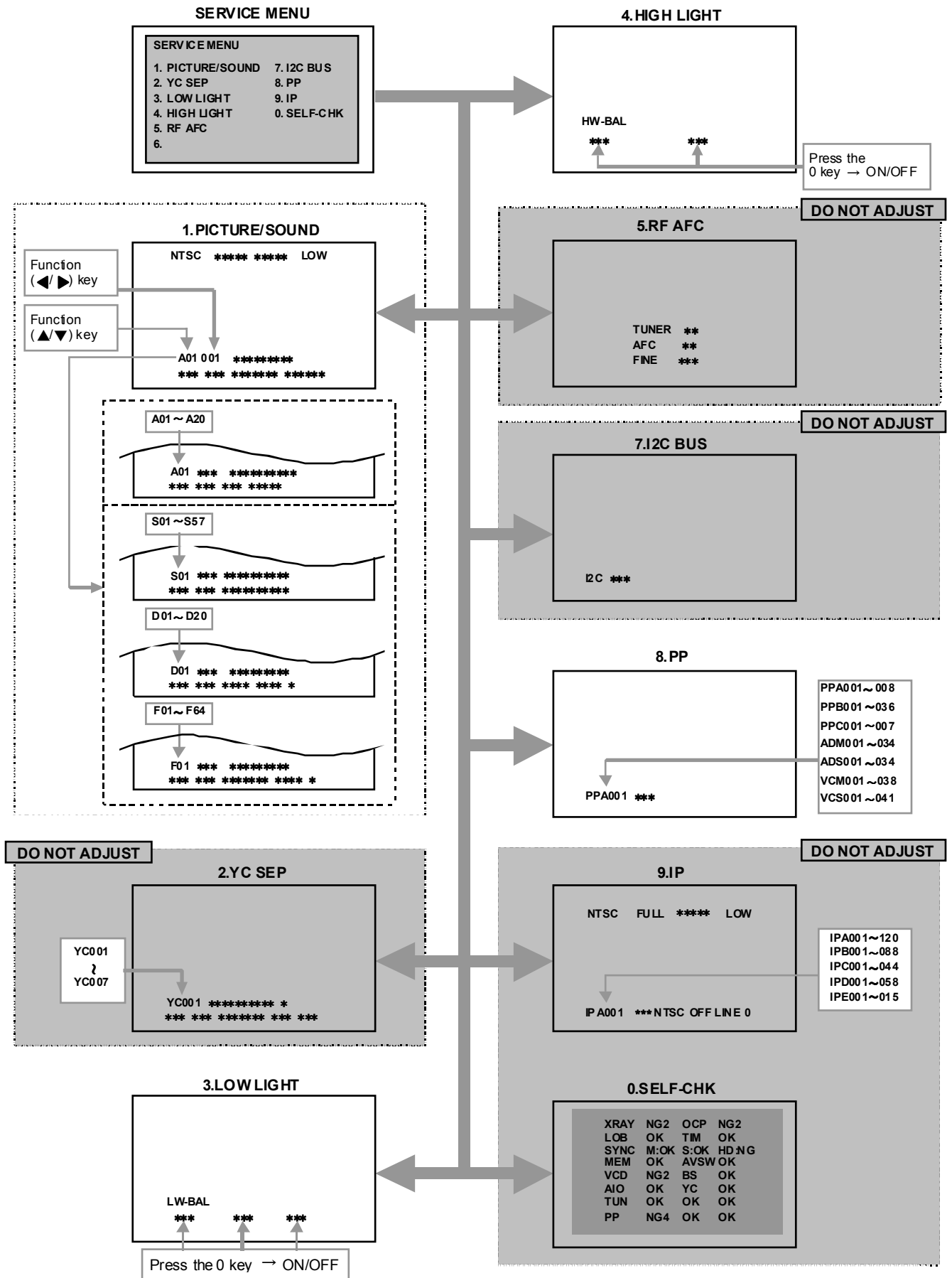
● 1. PICTURE / SOUND mode

- 1) Select the 1. PICTURE / SOUND items with the number key, and the FUNCTION (▲/▼) key is pressed the 1. PICTURE / SOUND mode, the screen will be displayed as shown in figure page later.
- 2) Then the settings or verifications can be performed.

● 2.YC SEP, 3.LOW LIGHT, 4.HIGH LIGHT, 5.RF AFC, 7.I²C BUS, 8.PP, 9.IP and 0.SELF-CHK mode

- 1) If you select any of 2.YC SEP 3.LOW LIGHT 4.HIGH-LIGHT 5.RF AFC 7.I²C BUS, 8.PP, 9.IP and 0.SELF-CHK mode items, and the numbers key is pressed from SERVICE MENU, the each screens will be displayed as shown in figure page later.
- 2) Then the settings or verifications can be performed.



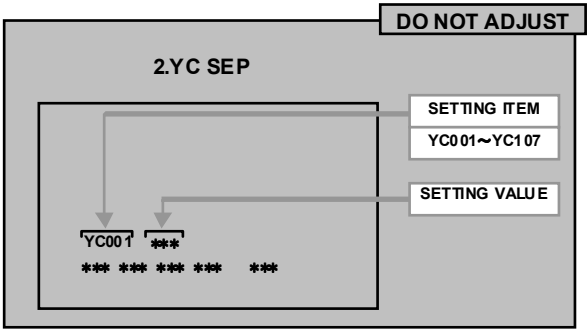
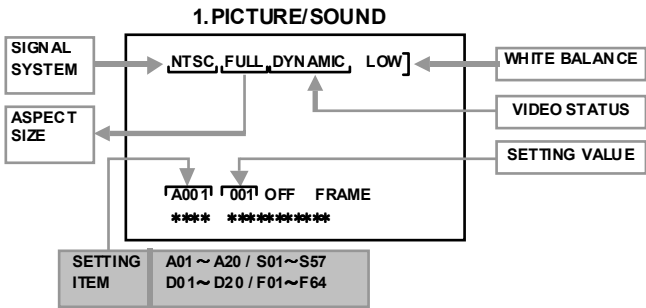


(4) Setting method

- 1) UP / DOWN (▲/▼) FUNCTION key
Select the SETTING ITEM.
- 2) LEFT / RIGHT (◀/▶) FUNCTION key
Setting (adjust) the setting value of the SETTING ITEM.
When the MUTING key is pressed the setting value will be stored (memorized).
- 3) EXIT key
Returns to the previous screen.

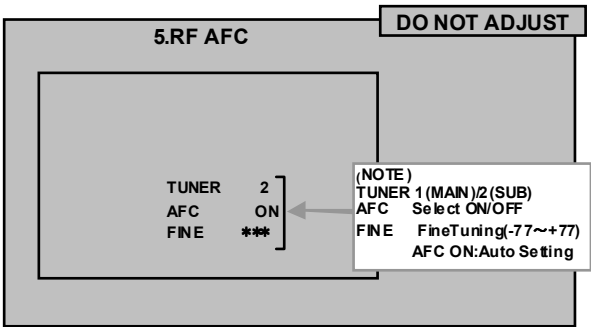
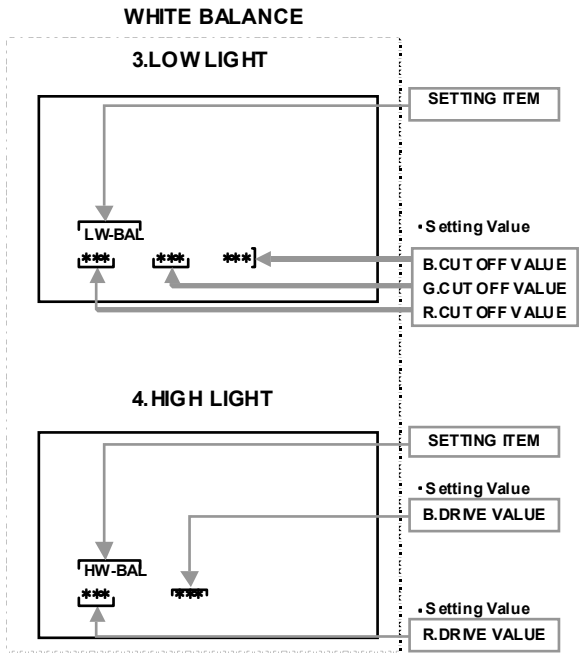
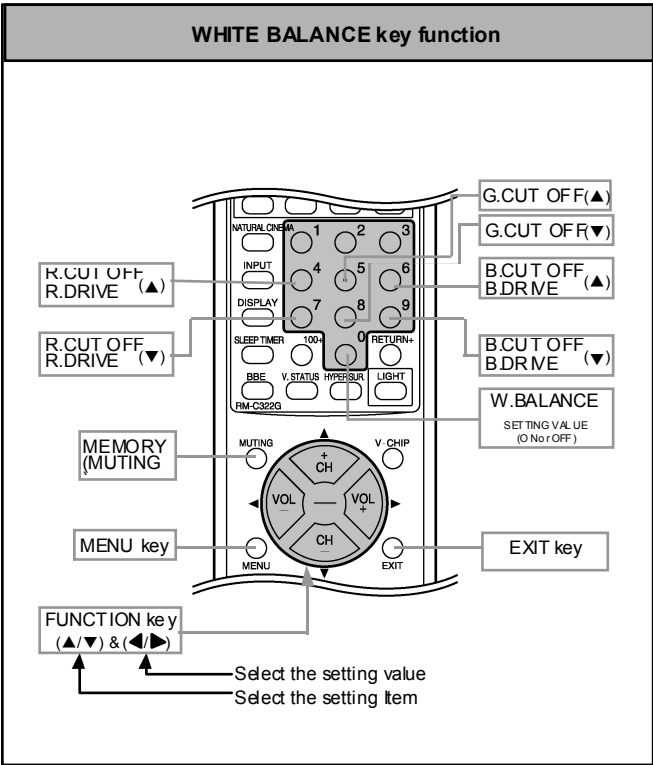
(5) Releasing SERVICE MENU

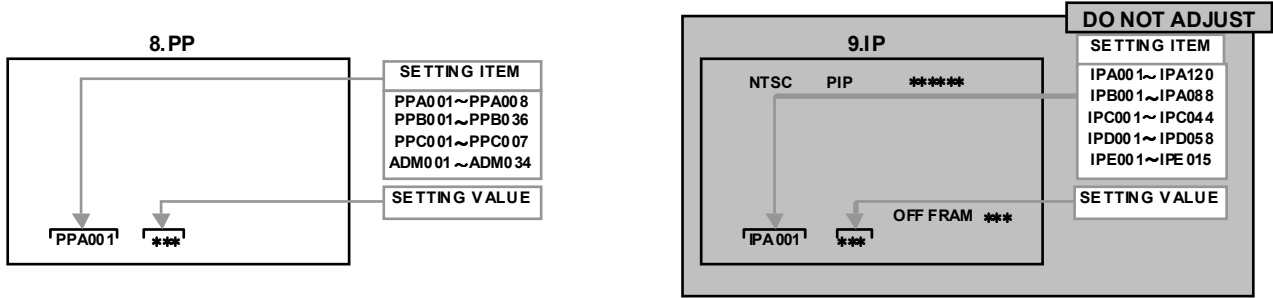
- 1) After returning to the SERVICE MENU upon completion of the setting work, press the EXIT key again.



● WHITE BALANCE setting

The setting for 3.LOW LIGHT and 4.HIGH LIGHT are described in the WHITE BALANCE page of ADJUSTMENT.





8.PP / 9.IP setting

- 1) FUNCTION(▲/▼) key..... Select the setting item
 - 2) FUNCTION (◀/▶) key..... Select the setting value.
 - 3) SLEEP TIMER key Skip the each setting item.
 - 4) MUTING Key Setting value will be stored.
 - 5) EXIT key Returns to the service menu.
- * Press the EXIT key again, then releasing the service menu.

0.SELF-CHK DISPLAY

Press 0 key of remote control unit that checks the circuit operating status and in event of malfunction displays stores the data in memory. (shown in figure)

0.SELF-CHK

XRAY	NG	OCF	NG2
LOB	OK	TIM	OK
SYNC	M:OK	S:OK	HD NG
MEM	OK	AVSW	OK
VCD	NG2	BS	OK
AIO	OK	TC	OK
TUN	OK	GCR	OK
PP	NG4	IP	OK

INITIAL SETTING VALUE OF SERVICE MENU

1. Adjustment of the SERVICE MENU is made on the basis of the initial setting values; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
2. Do not change the initial setting values of the setting items NOT LISTED IN ADJUSTMENT.
3. The (*1 or *2)marked items in following table, it is NO REQUIREMENT for adjustment. If values had change by the missing, set the initial values in the following table.

CAUTION

Never change the initial setting value any adjustments **except** for those that are designated in the adjustment procedures.

In case where you have made undesigned adjustments by mistake, never press the MUTING key on the remote control unit.

Whenever you had not pressed the MUTING key, you would be able to recover the initial value by switching the POWER SW (on/off) key.

1. PICTURE / SOUND

■ SOUND SYSTEM

Item No.	Item name	Variable range	Initial setting value	Item No.	Item name	Variable range	Initial setting value
A01	NOISE DET.	0 / 1	001	A11	INPUT GAIN	0 / 1	000
A02	INPUT LEVEL	0 ~ 63	027	A12	FILE OFFSET	-128 ~ +127	000
A03	FH MONITOR	0 / 1	000	A13	BBE BASS	-128 ~ +127	+003
A04	STEREO VCO	0 ~ 63	035	A14	BBE TREBLE	-128 ~ +127	+003
A05	PILOT CAN	0 / 1	000	A15	BASS	-128 ~ +127	-005
A06	FILTER	0 ~ 63	035	A16	TREBLE	-128 ~ +127	-004
A07	LOW SEP	0 ~ 63	027	A17	Not use	_____	_____
A08	HI SEP	0 ~ 63	028	A18	Not use	_____	_____
A09	5FH MON	0 / 1	000	A19	Not use	_____	_____
A10	SAP VCO	0 ~ 63	040	A20	Not use	_____	_____

■ DEFLECTION SYSTEM

Item No.	Item name	Variable range	Initial setting value	Item No.	Item name	Variable range	Initial setting value
D01	V. SIZE	0~127	013	D11	H. EHT	0~7	001
D02	EW PARABORA	0~63	022	D12	EHT GAIN	0~7	000
D03	H. SIZE	0~63	037	D13	SUBTITLE V. AREA	0~15	000
D04	V. S-CORRECT	0~63	040	D14	H. CENTER	0~255	161
D05	V. LINEARITY	0~63	041	D15	H. FREQUENCY	0~255	194
D06	V. CENTER	0~63	027	D16	H. BLK	0~255	063
D07	TRAPEZIUM	0~63	029	D17	OSD OFFSET	0~127	080
D08	EW CORNER LOWER	0~15	008	D18	COMPULSION TWIN SCREEN	0~7	000
D09	EW CORNER UPPER	0~15	008	D19	COMPULSION DEF RST OUTPUT	0 / 1	000
D10	V. EHT	0~7	004	D20	COMPULSION 1080i	0 / 1	000

PICTURE SYSTEM

(NT SC / 480i / 480p)

(1/2)

Item No.	Item name	Variable range	NT SC		480i		480p	
			Standard	Theater	Standard	Theater	Standard	Theater
S01	SUB COLOR	0~127	080	072	077	071	075	075
S02	SUB TINT	0~127	075	063	077	074	080	079

(720p / 1080i / HDCP)

(2/2)

Item No.	Item name	Variable range	720p / 1080i		HDCP			
			Standard	Theater	480p		1080i / 720p	
					Standard	Theater	Standard	Theater
S01	SUB COLOR	0~127	063	063	075	075	074	070
S02	SUB TINT	0~127	083	072	080	079	072	061

(NT SC / 480i)

(1/2)

Item No.	Item name	Variable range	NT SC		480i	
			Standard	Theater	Standard	Theater
S03	SUB BRIGHT	0~255	134	135	130	133
S04	SUB CONTRAST	0~127	063	046	080	047
S05	SUB BRIGHT OFFSET	-128~127	—	—	—	—
S06	SUB CONTRAST OFFSET	-128~127	—	—	—	—

(480p / 720p / 1080i / HDCP)

(2/2)

Item No.	Item name	Variable range	480p / 720p / 1080i		HDCP		SPLIT / FREEZE	
			Standard	Theater	Standard	Theater	Standard	Theater
S03	SUB BRIGHT	0~255	131	135	—	—	—	—
S04	SUB CONTRAST	0~127	084	046	—	—	—	—
S05	SUB BRIGHT OFFSET	-128~127	—	—	000	000	000	000
S06	SUB CONTRAST OFFSET	-128~127	—	—	000	000	-010	000

(NT SC / 480i / 480p / 720p / 1080i / HDCP)

Item No.	Item name	Variable range	NT SC		480i		480p		720p / 1080i / HDCP	
			Standard	Theater	Standard	Theater	Standard	Theater	Standard	Theater
S07	B-Y DEMODURATION	0~63	013	040	014	031	007	020	004	010
S08	R-Y DEMODULATION	0~7	007	000	007	000	007	002	003	003
S09	G-Y MATRIX SW	0~3	001	003	001	003	001	003	002	002

(NTSC / 480i)

(1/3)

Item No.	Item name	Variable range	NT SC				480i			
			Standard		Theater		Standard		Theater	
			High	Low	High	Low	High	Low	High	Low
S10	R DRIVE	0~255	—	075	—	—	—	077	—	—
S11	R DRIVE OFFSET	-128~+127	+004	000	+002	+006	+004	000	+003	-004
S12	B DRIVE	0~255	—	073	—	—	—	076	—	—
S13	B DRIVE OFFSET	-128~+127	+005	000	-012	-017	+005	000	-010	-018

(480p / 720p / 1080i)

(2/3)

Item No.	Item name	Variable range	480p				720p / 1080i			
			Standard		Theater		Standard		Theater	
			High	Low	High	Low	High	Low	High	Low
S10	R DRIVE	0~255	—	—	—	—	—	078	—	—
S11	R DRIVE OFFSET	-128~+127	+004	000	-005	-004	+004	000	-006	+005
S12	B DRIVE	0~255	—	—	—	—	—	072	—	—
S13	B DRIVE OFFSET	-128~+127	+006	000	-002	-014	+005	000	-013	-010

(HDCP)

(3/3)

Item No.	Item name	Variable range	HDCP			
			Standard		Theater	
			High	Low	High	Low
S10	R DRIVE	0~255	—	—	—	—
S11	R DRIVE OFFSET	-128~+127	+004	000	-006	+005
S12	B DRIVE	0~255	—	—	—	—
S13	B DRIVE OFFSET	-128~+127	+005	000	-010	-013

(NTSC / 480i / 480p / 720p / 1080i)

Item No.	Item name	Variable range	NT SC		480i		480p / 720p / 1080i		HDCP	
			Standard	Theater	Standard	Theater	Standard	Theater	Standard	Theater
S14	R CUT OFF	0~255	232	—	232	—	232	—	—	—
S15	R CUT OFF OFFSET	-128~+127	000	+003	000	+004	000	-007	000	+007
S16	G CUT OFF	0~255	040	—	040	—	040	—	—	—
S17	G CUT OFF OFFSET	-128~127	000	000	000	000	000	000	000	000
S18	B CUT OFF	0~255	048	—	041	—	054	—	—	—
S19	B CUT OFF OFFSET	-128~+127	000	-004	000	+002	000	-005	000	-005
S20	R CUT OFF SW	0~3	000	—	000	—	000	—	—	—
S21	B CUT OFF SW	0~3	001	—	001	—	001	—	—	—

(NTSC / 480i / OTHERS SIGNAL)

Item No.	Item name	Variable range	NT SC	480i	OTHERS SIGNAL
S22	BLACK GRAD CORR START LEVEL	0~15	015	015	015
S23	BLACK GRAD CORR GAIN	0~15	008	008	008
S24	WHITE GRAD CORR START LEVEL	0~15	000	000	000
S25	WHITE GRAD CORR GAIN	0~15	015	015	015
S26	WHITE CHA RA CORR START LEVEL	0~15	002	000	002
S27	WHITE CHA RA CORR GAIN	0~15	004	002	000

Item No.	Item name	Variable range	Standard	Theater
S28	ABL GAIN	0~15	015	015
S29	ABC START	0~15	015	015
S30	ACL GAIN	0~15	015	015
S31	ACL START	0~15	000	00
S32	CONTRAST LINK	0 / 1	000	000
S33	BLACK GRADIATION CORRECTION OFF	0 / 1	000	001
S34	WHITE GRADIATION CORRECTION OFF	0 / 1	000	001

(NTSC / 480i / 480p / 720p / 1080i / HDCP)

Item No.	Item name	Variable range	NT SC / 480i	480p	720p / 1080i	HDCP	
						480p	720p / 1080i
S35	TINT HD / NTSC	0 / 1	001	001	000	001	000

Item No.	Item name	Variable range	Standard	Theater
S36	ABL OFF	0 / 1	000	000
S37	ACL OFF	0 / 1	000	000
S38	DC TRANSMIT POLARITY	0 / 1	001	000
S39	DC TRANSMIT CORR	0 / 1	000	000
S40	BLANKING ON / OFF	0 / 1	000	000

(NTSC / 480i / OTHERS)

Item No.	Item name	Variable range	NT SC		480i		OTHERS SIGNAL	
			Standard	Theater	Standard	Theater	Standard	Theater
S41	DC REPRODUCE RATE	0~255	160	140	160	120	160	120

Item No.	Item name	Variable range	SPLIT	Regular	Theater	OTHERS SIGNAL
S42	ACL CONTROL	0~255	064	072	000	072

Item No.	Item name	Variable range	Setting value	
			Standard	Theater
S43	CONTRAST LOWER LIMIT	-128~+127	-030	-020
S44	CONTRAST UPPER LIMIT	-128~+127	+013	+013
S45	BRIGHT LOWER LIMIT	-128~+127	-020	-020

(NTSC / 480i / OTHERS)

Item No.	Item name	Variable range	NTSC	480i	OTHERS SIGNAL
S46	EETHEATER BRIGHT	-128~+127	000	000	000
S47	EETHEATER CONTRAST	-128~+127	+020	+020	+020

(ALL SIGNAL)

Item No.	Item name	Variable range	Setting value
S48	BRIGHT EE CONT. CORRECTION	0~31	008
S49	REFRAIN EE CONT. CORRECTION	0~31	027
S50	REFRAIN EE BRIGHT OFFSET CORR (MAX)	0~127	004
S51	BRIGHT EE ACL CORR. COEFF.	0~255	085
S52	REFRAIN EE ACL CORR. COEFF.	0~255	140
S53	No use	0 / 1	000
S54	No use	0 / 1	000
S55	No use	0 / 1	000
S56	No use	0 / 1	000
S57	No use	0 / 1	000

OTHERS

Item No.	Item name	Variable range	Setting value	Item No.	Item name	Variable range	Setting value
F01	EEPROM Ver1	0~255	053	F32	DIRECT SELECT 2 PIC.	0 / 1	000
F02	EEPROM Ver2	0~255	001	F33	CAPTION OSD OSCSELECT	0~7	002
F03	H.LINE ON (BRIGHT)	0~255	133	F34	4 PIC. HIGH SPEED SEARCH	0~255	225
F04	H.LINE OFF (BRIGHT)	0~255	137	F35	4 PIC. AGC REFRESH	0~255	000
F05	H.LINE CONTRAST	0~127	000	F36	4 PIC. HIGH SPEED WAIT 1	0~255	040
F06	C38 / C41 SW	0 / 1	001	F37	4 PIC. HIGH SPEED WAIT 2	0~255	020
F07	MODEL SELECT	0~255	000	F38	4 PIC. HIGH SPEED WAIT 3	0~255	040
F08	_____	_____	_____	F39	VSM SHIPPING MODE	0 / 1	000
F09	AUTO SCROLL ADJUST 1	0~15	002	F40	DVD	0~3	000
F10	AUTO SCROLL ADJUST 2	0~15	004	F41	2 PICTURE 16:9 MODE	0 / 1	001
F11	AUTO SCROLL ADJUST 3	0~15	004	F42	V/C DECODE H.MASK SETTING	0 / 3	002
F12	AUTO SCROLL ADJUST 4	0~15	005	F43	POWER OFF WHITE	0 / 1	000
F13	AUTO SCROLL ADJUST 5	0~15	006	F44	WHITE BACK ON/OFF	0 / 1	000
F14	AUTO SCROLL ADJUST 6	0~15	007	F45	_____	_____	_____
F15	AUTO SCROLL ADJUST 7	0~15	007	F46	_____	_____	_____
F16	Not use	0 / 1	000	F47	_____	_____	_____
F17	Not use	0 / 1	000	F48	_____	_____	_____
F18	Not use	0 / 1	000	F49	_____	_____	_____
F19	Not use	0 / 1	000	F53	S / N (RF) CORR.WIDTH	0~255	000
F20	Not use	0 / 1	000	F54	S / N (RF) CORR.START	0~255	000
F21	Not use	0 / 1	000	F55	S / N (BS) CORR.WIDTH	0~255	000
F22	Not use	0 / 1	000	F56	S / N (BS) CORR.START	0~255	001
F23	Not use	0 / 1	000	F57	S / N (COMP.) CORR.WIDTH	0~255	000
F24	V-CHIP ON/OFF (CANADA)	0 / 1	001	F58	S / N (COMP.) CORR.START	0~255	000
F25	EARTH MAGNETIC CORR. PICTURE	0~127	127	F59	S / N (S) CORR.WIDTH	0~255	000
F26	OSD OFFSET (480p / 720p) (HDCP / 480p)	0~63	033	F60	S / N (S) START	0~255	000
F27	OSD OFFSET (1080i / HDCP1080i)	0~63	018	F61	OCD OFFSET (HORI.)	0~127	000
F28	CH.PROGRAM SEARCH CYCLE	0~255	011	F62	ATT GAIN	0 / 1	000
F29	PIP FUNCTION ON / OFF	0 / 1	000	F63	V.HEIGHT OFFSET	-128 ~ +127	001
F30	PIP 2 PICTURE	0 / 1	000	F64	TEXT MODE CONT.CORR.	-128 ~ +127	000
F31	V.CHIP ON OFF	0 / 1	001				

(1/2)

Item No.	Item name	Variable range	Setting value				
			NT SC	480i	480p	1080i	720p
F50	SEP.LEVEL	0~3	000	002	002	002	002
F51	CLAMP PLUS	0 / 1	000	000	000	000	000
F52	HD PHASE	0~63	038	035	026	039	024

(2/2)

Item No.	Item name	Variable range	Setting value			
			HDCP 480p SIZE 1	HDCP 480p SIZE 2	HDCP 720p	HDCP 1080i
F50	SEP.LEVEL	0~3	002	002	002	002
F51	CLAMP PLUS	0 / 1	000	000	000	000
F52	HD PHASE	0~63	042	017	047	044

ADJUSTMENT

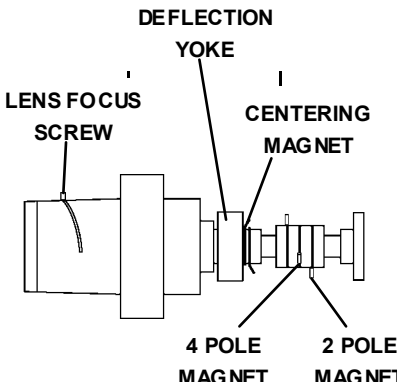
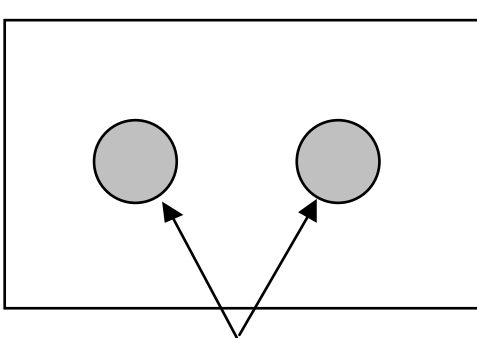
CHECK ITEMS

Item	Measuring instrument	Test point	Adjustment part	Description
B1 POWER SUPPLY check	Signal generator DC voltmeter	S1 connector 5 pin: TP-91 1 pin: TP-E (↗)		<ol style="list-style-type: none"> 1. Receive a NTSC black & white signal (color off). 2. Connect the DC voltmeter to TP-91 (S1 connector 5 pin) and TP-E (↗) (S1 connector 1 pin). 3. Confirm that the voltage is DC140V \pm 2V.
HIGH VOLTAGE check	Signal generator High voltage meter	CRT Anode		<ol style="list-style-type: none"> 1. Receive a NTSC whole black signal. 2. Connect the high voltage meter between CRT anode and GND. 3. Check that the high voltage DC 31.0kV \pm 1.0kV.
X-RAY PROTECTOR check	Resistor 6.8k Ω 1/6W \pm 5%	S1 connector 2 pin: X-Ray2 3 pin: X-Ray1		<ol style="list-style-type: none"> 1. Receive any broadcast. 2. Connect resistor 6.8kΩ (1/6W, \pm 5%) between 2 pin & 3 pin of the connector S1. 3. Confirm that the X-RAY protector functions operated.

HORIZONTAL FREQUENCY ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
H. FREQUENCY adjustment	Signal generator Remote control unit		D15 : H. FREQ. D19 : DEF. RST	<ol style="list-style-type: none"> 1. Receive any broadcast. 2. Preset from 0 to 1 for D19 <DEF. RST>. 3. While observing the screen, adjust the D15 <H. FREQ> so that an optimum horizontal synchronization is obtained. 4. After adjustment, to preset from 1 to 0 for D19 <DEF. RST>. 5. Press the MUTING key to memorize the set value.

FOCUS & BEAM SPOT ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS & BEAM SPOT adjustment	Signal generator		G Def. Yoke (DY) R Def. Yoke (DY) B Def. Yoke (DY) [Projection unit]	1. Receive a cross-hatch signal. 2. Press the ASPECT and select the FULL mode. 3. If the picture tilted, adjust the R, G and B DY position to mark straight horizontal line.
	Similar adhesive (Securing adhesive)		R LENS FOCUS screw G LENS FOCUS screw B LENS FOCUS screw [Projection unit (LENS ASS'Y)] R SCREEN VR G SCREEN VR B SCREEN VR [FOCUS PACK] 4 pole magnet 2 pole magnet [Projection unit (CRT neck)] R FOCUS VR G FOCUS VR B FOCUS VR [FOCUS PACK]	4. Makes a red single color. NOTE : When making a single color, It squeezes SCREEN VR in each one, or it does a lid to the lens in of the adjustment color and it makes it single color. 5. By turning the LENS FOCUS screw (in LENS ASS'Y), for optimum focus at the screen center. Check for absence of difference in the peripheral focus. If the peripheral focus is poor, slightly shift the center focus to obtain overall balanced focus. 6. In the same manner, produce green and blue single color and adjust their respective focus. 7. After adjustment, it fixes a screw. NOTE : There is not a difference in the focus in the top and the bottom, on either side, in the diagonal. When the difference of the focus is big, it removes a main lens, and it puts a washer between the main lens and the coupler and it adjusts it.
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>PROJECTION UNIT & LENS ASS'Y (CRT adjustment location)</p> </div> <div style="text-align: center;">  <p>CRT FOCUS adjustment point</p> </div> </div>				
■ LENS FOCUS 4. Makes a red single color. NOTE : When making a single color, It squeezes SCREEN VR in each one, or it does a lid to the lens in of the adjustment color and it makes it single color. 5. By turning the LENS FOCUS screw (in LENS ASS'Y), for optimum focus at the screen center. Check for absence of difference in the peripheral focus. If the peripheral focus is poor, slightly shift the center focus to obtain overall balanced focus. 6. In the same manner, produce green and blue single color and adjust their respective focus. 7. After adjustment, it fixes a screw. NOTE : There is not a difference in the focus in the top and the bottom, on either side, in the diagonal. When the difference of the focus is big, it removes a main lens, and it puts a washer between the main lens and the coupler and it adjusts it.				
■ BEAM SPOT 8. Receive a dot pattern signal. 9. Makes a red single color. NOTE : When making a single color, It squeezes SCREEN VR in each one, or it does a lid to the lens in of the adjustment color and it makes it single color. 10. Turn the R FOCUS VR to set the dot diameter to about ϕ 30mm. 11. Turn the 4 pole magnet of the projection unit CRT neck and to where the dots at the screen center are nearly circular. 12. Return the R FOCUS VR to its original position (just focus). 13. Turn the 2 pole magnet of the CRT neck to minimize expansion of the dots. 14. In the same manner, adjust for the green and blue single color focus. 15. Secure the 4 and 2 pole magnets with similar adhesive.				
■ CRT FOCUS 16. Receive a cross hatch signal. 17. Makes a red single color. NOTE : When making a single color, It squeezes SCREEN VR in each one, or it does a lid to the lens in of the adjustment color and it makes it single color. 18. Adjust the R FOCUS VR for optimum focus at the position indicated in the figure. 19. In the same manner, adjust for the green and blue single color focus. 20. After adjustment, return the SCREEN VRs to their original positions. NOTE : When moving screen VR, always return to original.				

CONVERGENCE & DEFLECTION ADJUSTMENT

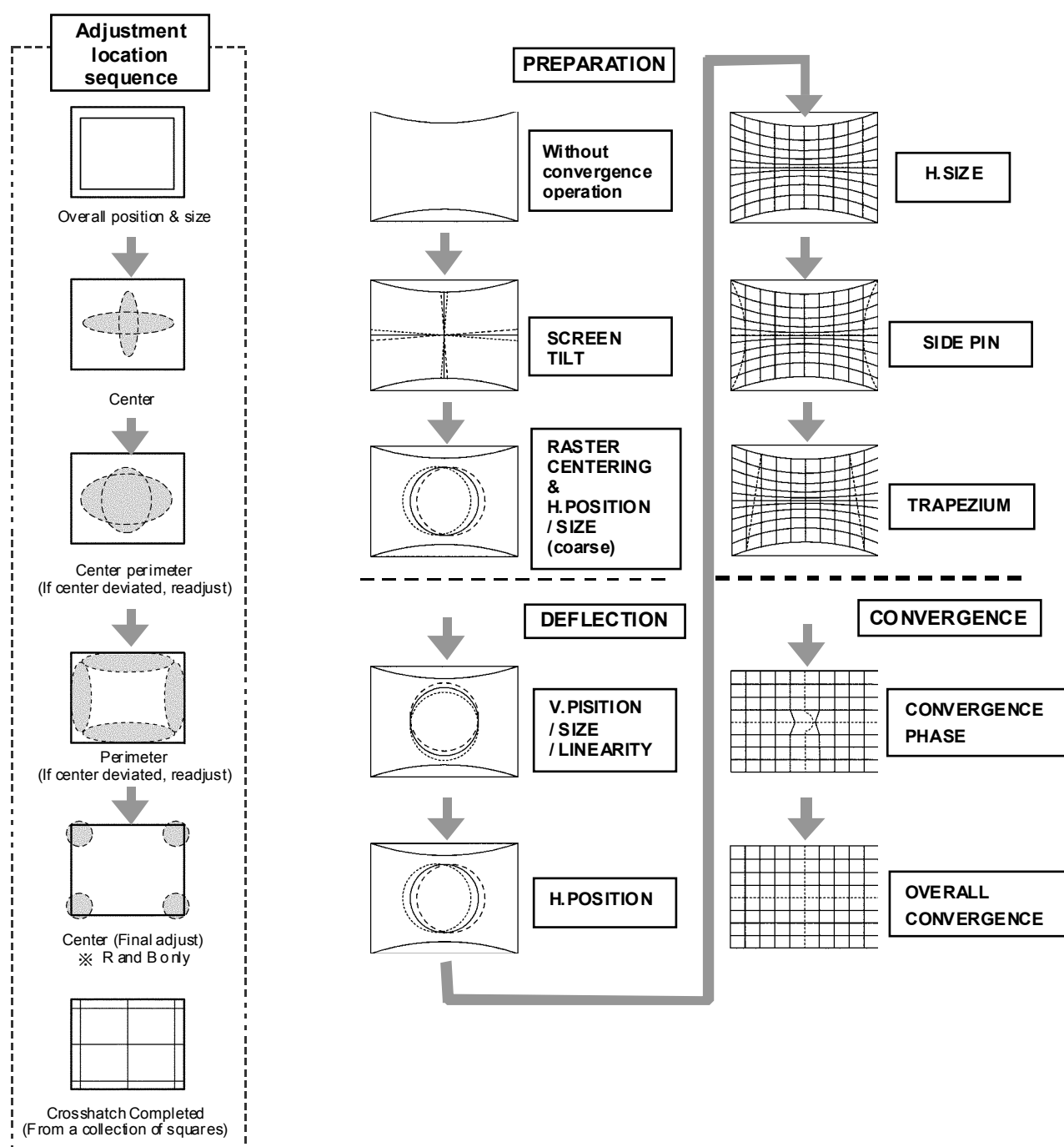
- The adjustment using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- At first the adjustment in FULL mode should be done, then the data for the other ASPECT mode is corrected in the respective value at the same time.

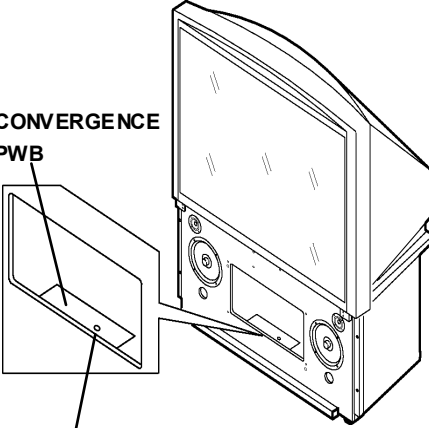
FLOWCHART OF ADJUSTMENT

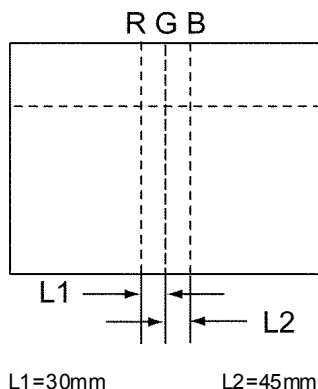
CAUTION

All adjustments of the DEFLECTION circuit for this model should be carried out under the status without convergence operation. To enter the status without convergence operation turn the power on while pressing the service switch **S801** on the CONVERGENCE PWB. As a result, you can get the screen as shown in Fig.1. Adjust the DEFLECTION circuit in order of the steps indicated by the downward arrows.

Note: When every adjustment of the DEFLECTION circuit has completed, start the adjustment of convergence.



Item	Measuring instrument	Test point	Adjustment part	Description
SCREEN TILT adjustment  <p>CONVERGENCE PWB</p> <p>SERVICE SW (S801) [CONVERGENCE PWB]</p>	Signal generator		SERVICE SW (S801) [CONVERGENCE PWB] G DEF. YOKE R DEF. YOKE B DEF. YOKE [PROJECTION UNIT]	<ul style="list-style-type: none"> Confirm correct FOCUS adjustment. <ol style="list-style-type: none"> It pushes a power switch while pushing SERVICE SW S801 on the CONVERGENCE PWB then it makes picture without convergence operation. Receive a NTSC cross-hatch signal. Makes a green single color. <p>NOTE : When making a single color, It squeezes SCREEN VR in each one, or it does a lid to the lens in the adjustment color and it makes it single color.</p> <ol style="list-style-type: none"> Temporarily secure the G deflection yoke to the top of the neck and adjust the tilt of the deflection yoke so that the horizontal line at the center becomes flat. After adjustment, fasten the temporal screw. Adjust the tilt of the R and B deflection yokes in the same manner as for green. <p>NOTE : Make sure that the adjustment of CRT FOCUS is optimized at the center and at the fringe of the center in turn. If the proper adjustment has not been done, adjust FOCUS VR again.</p>
RASTER CENTERING & H. POSITION / SIZE (coarse) adjustment	Signal generator Remote control unit		SERVICE SW (S801) [CONVERGENCE PWB] G CENTERING magnet R CENTERING magnet B CENTERING magnet [DEF. YOKE] D03 : H. SIZE D14 : H. CENTER	<ol style="list-style-type: none"> It pushes a power switch while pushing SERVICE SW S801 on the CONVERGENCE PWB then it makes picture without convergence operation. Receive a NTSC circle & cross-hatch signal. Makes a green single color. <p>NOTE : When making a single color, it squeezes SCREEN VR in each one, or it does a lid to the lens in the adjustment color and it makes it single color.</p> <ol style="list-style-type: none"> Select 1.PICTURE/SOUND from SERVICE MENU. Select D03 < H. SIZE > and shorten the level until and perpendicular amplitude of vibration with until the blanking in Left and Right and on either side can be seen. Select D14 <H. CENTER > and adjust horizontal position to make the screen center and signal center. Select D03 < H. SIZE > and adjust horizontal size to make screen picture approx. 92% of H-SIZE. Press the MUTING key and memorize the set value. Adjust the G CENTERING magnet to make horizontal and vertical line center as mechanical center of screen. Red and blue color, too, are reflected by it. Using R CENTERING magnet and B CENTERING magnet, adjusts for the line of the red and the blue to become the position of the left figure.



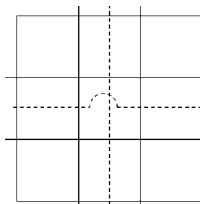
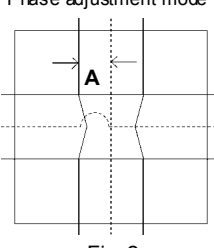
DEFLECTION CIRCUIT ADJUSTMENT

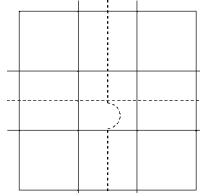
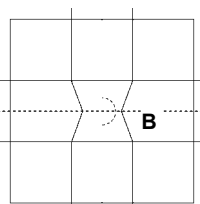
Item	Measuring instrument	Test point	Adjustment part	Description
V. POSITION / SIZE / LINEARITY adjustment	Signal generator Remote control unit		D01 : V. SIZE D05 : V. LINEARITY D06 : V. CENTER SERVICE SW (S801) [CONVERGENCE PWB]	<p>● To memorize every time after finish adjustment on each mode.</p> <ol style="list-style-type: none"> 1. It pushes a power switch while pushing SERVICE SW S801 on the CONVERGENCE PWB then it makes picture without convergence operation. 2. Press SERVICE SW S801 again. 3. Press the ASPECT key and select the FULL mode. 4. Receive a NTSC circle pattern signal. 5. Select 1.PICTURE/SOUND from the SERVICE MENU. 6. Select D01 <V. SIZE>, D05 <V. LINEARITY>, D06 <V. CENTER> with the FUNCTION (▲/▼) key. 7. Adjust D06, D02 to make A = B (precision $\pm 2\text{mm}$), and adjust to make C = 75mm 8. Press the MUTING key and memorize the set value. <p>NOTE : Do not adjust D04 <V. S-CORRECTION>, if it is different vertical position after adjust vertical linearity, to adjust vertical position.</p>
H. POSITION adjustment			D14 : H. CENTER	<ol style="list-style-type: none"> 9. Select D14 <H. CENTER> with FUNCTION (▲/▼) key. 10. Adjust D14 with FUNCTION (◀▶) key and make D = E as shown figure. 11. Press the MUTING key and memorize the set value.
H. SIZE adjustment			D03 : H. SIZE	<ol style="list-style-type: none"> 12. Receive a NTSC cross-hatch signal. 13. Select D03 <H. SIZE> with the FUNCTION (▲/▼) key. 14. Adjust D03 and make sure that the vertical screen size of the picture size is 92%. 15. Press the MUTING key and memorize the set value.

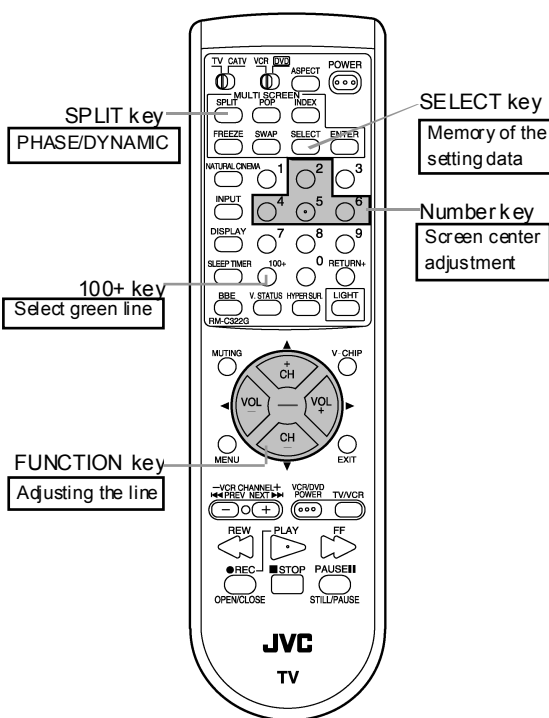
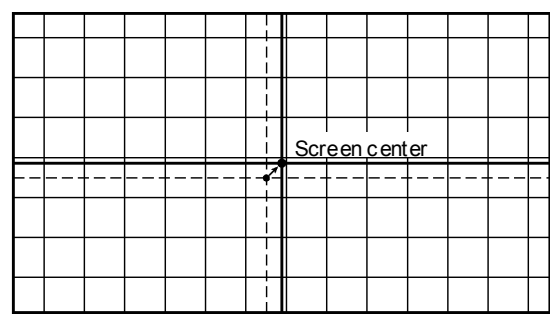
No. 52007

CONVERGENCE ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
CONVERGENCE PHASE adjustment	Signal generator		SERVICE SW (S801) [CONVERGENCE PWB]	1. Receive a NTSC cross-hatch signal.
	Remote control unit			2. Press the SERVICE SW S801 on the CONVERGENCE PWB to enter the dynamic adjustment mode.
3. Press the 100+ key to select the green line.				
4. Using the FUNCTION (▲) (CH+) key, intentionally expand the blinking horizontal green line as shown in the Fig. 1 .				
5. Press the SPLIT key to enter the phase adjustment mode.				
6. Using the FUNCTION (◀/▶) key, adjust the screen so that the point "A" is located between the cross-point of the dotted line and the vertical line on the left side as shown in the Fig. 2 .				
7. Press the SPLIT key again to return to the dynamic adjustment mode.				
8. Press the 100+ key to select the green line.				
9. Return the point "A", which was intentionally expanded, to its original position.				
10. Using the FUNCTION (◀) key, intentionally expand the vertical line as shown in the Fig. 3 .				
11. Press the SPLIT key to enter the phase adjustment mode.				
12. Using the FUNCTION (▲/▼) key, adjust the screen so that the peak of the point "B" meets with the adjacent dotted line as shown in the Fig. 4 .				
13. Press the SPLIT key again to return to the dynamic adjustment mode.				
14. Press the 100+ key to select the vertical green line.				
15. Using the FUNCTION (▶) key, return the point "B", which was intentionally expanded, to its original position.				
16. Press the SPLIT key again to enter the phase adjustment mode.				
17. Using the 2(up) / 4(left) / 5(down) / 6(right) key, adjust the screen so that the cross-point of the dotted line is positioned at the screen center on the screen. (Fig. 5)				
18. Press the SELECT key twice and memorize the set value.				

Dynamic adjustment mode	Phase adjustment mode
	
Fig. 1	Fig. 2

Dynamic adjustment mode	Phase adjustment mode
	
Fig. 3	Fig. 4

REMOTE CONTROL KEY POSITION	
	
	Fig. 5

Item	Measuring instrument	Test point	Adjustment part	Description
OVERALL CONVERGENCE adjustment	Signal generator Remote control unit		SERVICE SW (S801) [CONVERGENCE PWB]	<ol style="list-style-type: none"> 1. Receive a NTSC cross-hatch signal. 2. Press the SERVICE SW S801 on the CONVERGENCE PWB to enter the dynamic adjustment mode and a cross-hatch signal appears. 3. Press the 100+ key to select green color. Then the center lines of the vertical and horizontal lines of the cross-hatch pattern will flash. 4. Press MENU key to let green cross-hatch pattern to appear on screen. 5. Using the 2(up) / 4(left) / 5(down) / 6(right) key, move the flashing line. 6. Using the FUNCTION (▲/▼/◀/▶) key, adjust the position on the screen as shown in Fig.1. 7. Sometime press INDEX key to do interpolation process. 8. Press 0 key to select red color. Then the center lines of the vertical and horizontal lines of the cross-hatch pattern will flash. 9. Repeat steps 5 ~ 8. 10. Press RETURN+ key to select blue color. Then the center lines of the vertical and horizontal lines of the cross-hatch pattern will flash. 11. Repeat steps 5 ~ 8. 12. After finishing the adjustment, press SELECT key twice to memorize the setting data. 13. Press 0 keys five times and it changes a screen to the H7×V5 adjustment point mode. 14. Repeat steps 3 ~ 12. 15. Press RETURN+ keys five times and it changes a screen to the H13×V7 adjustment point mode. 16. Repeat steps 3 ~ 12. 17. After adjustment, press the SERVICE SW S801 again.

Fig. 1

REMOTE CONTROL KEY POSITION

No te:

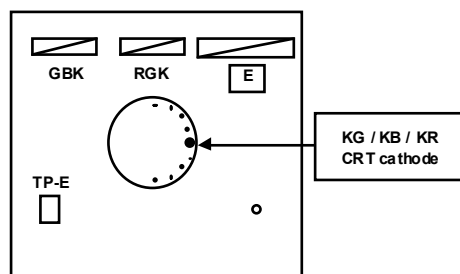
For overall convergence adjustment, the following should be done in turn :

- (1) H3×V3 coarse adjustment mode
- (2) H7×V5 coarse adjustment mode
- (3) H13×V7 fine adjustment mode

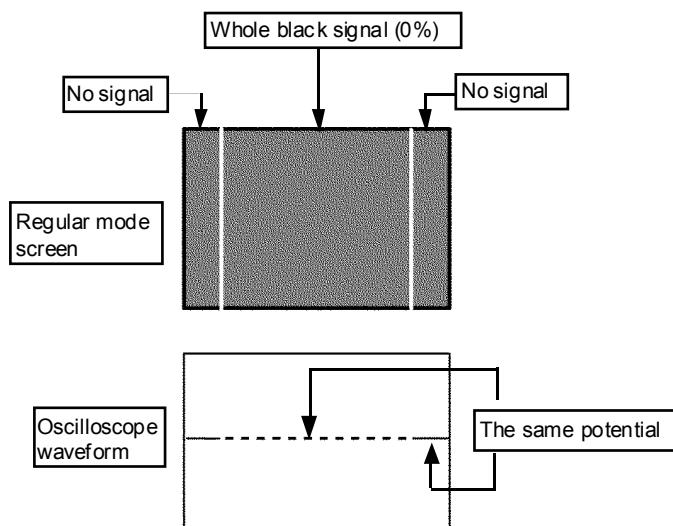
● You are unable to return to the H3×V3 mode from the H7×V5 and H13×V7 modes, respectively.

VIDEO ADJUSTMENT

Item	Measuring Instrument	Test point	Adjustment Item	Description
A-D CONVERTER OFFSET adjustment	Signal generator	KG [G CRT SOCKET PWB]	ADM012: R OFFSET	<ol style="list-style-type: none"> 1. Receive a NTSC whole black (0%) signal. 2. Select the STANDARD mode for the VIDEO STATUS. 3. Select REGULAR mode of ASPECT mode. 4. Select that COLOR TEMP in set at the LOW mode. 5. Connect the oscilloscope to KG (G cathode) on the G CRT SOCKET PWB. 6. Select 8.PP from the SERVICE MENU. 7. Select ADM013<G OFFSET>. 8. Adjust ADM013 so that the central 0% signal portion and the non-signal portion of both sides may become the same voltage. 9. Connect the oscilloscope to KB (B cathode) on the B CRT SOCKET PWB. 10. Select ADM014<B OFFSET>. 11. Adjust ADM014 so that the central 0% signal portion and the non-signal portion of both sides may become the same voltage. 12. Connect the oscilloscope to KR (R cathode) on the R CRT SOCKET PWB. 13. Select ADM012<R OFFSET>. 14. Adjust ADM012 so that the central 0% signal portion and the non-signal portion of both sides may become the same voltage. 15. Press the MUTING key and memorize the set values. 16. Input 480i / 480p / 750p / 1080i component whole black signal from COMPONENT VIDEO terminal respectively. 17. Set the data of ADM012, ADM013 and ADM014, which were obtained in the adjustments above, by each signal. 18. Press the SPLIT key to display two pictures. 19. Input NTSC / 480i / 480p / 750p / 1080i component whole black signal to the MAIN picture, respectively. 20. Set the data of ADM012, ADM013 and ADM014 in the same manner as for step 16 above. 21. Press the POP key to display four pictures. 22. Regardless of the type of signal, input a signal. 23. Set the data of ADM012, ADM013 and ADM014 in the same manner as for step 16 above.
	Oscilloscope Remote control unit	KB [B CRT SOCKET PWB] KR [R CRT SOCKET PWB]	ADM013: G OFFSET ADM014: B OFFSET	

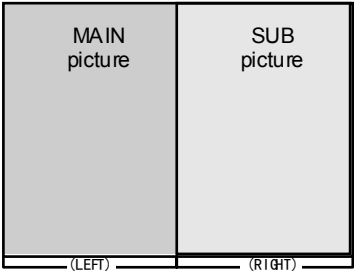


CRT SOCKET PWB



Item	Measuring Instrument	Test point	Adjustment Item	Description																											
WHITE BALANCE (Low Light) adjustment	Signal generator	TP-R [R CRT SOCKET PWB]	S14: R CUTOFF S16: G CUTOFF S18: B CUTOFF S20: R CUTOFF SW S21: B CUTOFF SW	<div>1. Receive NTSC black & white signal (include 0%).</div> <div>2. Select the STANDARD mode for the VIDEO STATUS.</div> <div>3. Select the COLOR TEMP in set at the LOW mode.</div> <div>4. Connect the oscilloscope to TP-G.</div> <div>5. Adjust S16 <G CUTOFF> to mach 0% DC level to 180V.</div> <div>6. Press the MUTING key to memorize the set value.</div> <div>NOTE : Adjusting S16, change the only up. If DC level is low, adjust S03 <SUB BRIGHT>.</div> <div>7. Input 480i component black level pattern signal from COMPONENT VIDEO terminal and input the value adjusted at NTSC to S16<G CUTOFF>.</div> <div>8. Press the MUTING key and memorize the set values.</div> <div>9. Input 1080i component black level pattern signal from COMPONENT VIDEO terminal and input the value adjusted at NTSC to S16<G CUTOFF>.</div> <div>10. Press the MUTING key and memorize the set values.</div> <div>11. In case of TP-R, TP-B, repeat step 4 ~ 6 above.</div> <div>If the value of S14 or S18 is maximum or minimum, change S20<R CUTOFF SW> or S21<B CUTOFF SW> and then adjust S14 or S18.</div> <div>12. Adjust each R / G / B screen VR and glimmer +3% point of each R / G / B on the screen.</div> <div>13. Receive the NTSC black & white pattern signal (color off).</div> <div>14. Select the STANDARD mode for the VIDEO STATUS.</div> <div>15. Select that COLOR TEMP is set at the LOW mode.</div> <div>16. Select the 3.LOW LIGHT mode from the SERVICE MENU.</div> <div>17. Press the 0 key, then setting values appear.</div> <div>18. Increase the bright level to confirm low-light with FUNCTION key (▶).</div> <div>19. Adjust using 4 / 7(R CUTOFF), 6 / 9 (B CUTOFF) key of number key so that a black portion may become black.</div> <div>20. Press the MUTING key and memorize the set values.</div> <div>21. Input 480i component black & white pattern signal from COMPONENT VIDEO terminal.</div> <div>22. Repeat steps 16 ~ 20 above.</div> <div>23. Input 1080i component black & white signal from COMPONENT VIDEO terminal.</div> <div>24. Repeat steps 16 ~ 20 above.</div>																											
	Oscilloscope	TP-G [G CRT SOCKET PWB]	R SCREEN VR G SCREEN VR B SCREEN VR [FOCUS PACK]																												
	Remote control unit	TP-B [B CRT SOCKET PWB]																													
<div><div><div><div><div>GBK</div><div>RGK</div><div>E</div></div><div><div>TP-E</div><div><div><div>TP-R</div><div>TP-G</div><div>TP-B</div></div></div></div></div><div>CRT SOCKET PWB</div></div></div>																															
<div><div><div>Setting item</div><div>R. CUTOFF setting value</div><div>Press 0 key then appear</div></div><div><div>LOW-BAL</div><div>(***)</div><div>(***)</div><div>(***)</div><div>G. cutoff setting value</div><div>B. cutoff setting value</div></div></div>																															
<table><tr><th rowspan="2">Setting item</th><th colspan="3">Setting value</th></tr><tr><th>NT SC</th><th>480i</th><th>1080i</th></tr><tr><td>S14</td><td>232</td><td>232</td><td>232</td></tr><tr><td>S16</td><td>040</td><td>040</td><td>040</td></tr><tr><td>S18</td><td>048</td><td>041</td><td>050</td></tr><tr><td>S20</td><td>000</td><td>000</td><td>000</td></tr><tr><td>S21</td><td>001</td><td>001</td><td>001</td></tr></table>					Setting item	Setting value			NT SC	480i	1080i	S14	232	232	232	S16	040	040	040	S18	048	041	050	S20	000	000	000	S21	001	001	001
Setting item	Setting value																														
	NT SC	480i	1080i																												
S14	232	232	232																												
S16	040	040	040																												
S18	048	041	050																												
S20	000	000	000																												
S21	001	001	001																												
<div>REMOTE CONTROL UNIT</div> <div><div><div>1</div><div>R CUTOFF ▲</div><div>4</div><div>R CUTOFF ▼</div><div>7</div></div><div><div>2</div><div>G CUTOFF ▲</div><div>5</div><div>G CUTOFF ▼</div><div>8</div></div><div><div>3</div><div>EXIT</div><div>B CUTOFF ▲</div><div>6</div><div>B CUTOFF ▼</div><div>9</div><div>OSD ON/OFF</div><div>0</div></div></div>																															

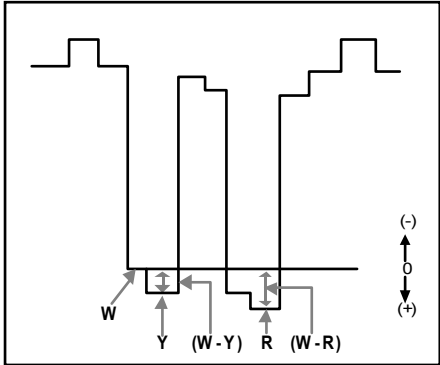
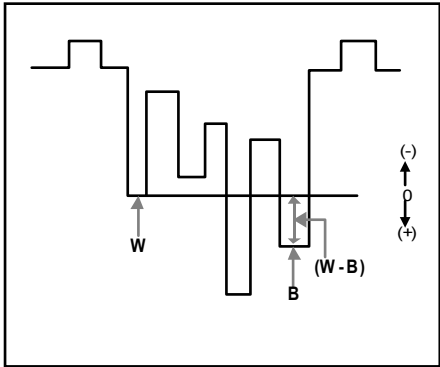
Item	Measuring Instrument	Test point	Ad justment Item	Description															
WHITE BALANCE (High Light) adjustment	Signal generator Remote control unit		S10 : R DRIVE S12 : B DRIVE	<div><div><div><div><div>Setting ITEM</div><div>G DRIVE setting value</div></div><div><div><div>HW BAL ***</div><div>Fig.1</div></div><div><div>R DRIVE setting value</div></div></div><div><div>Press 0 key then appear.</div></div></div></div><div><div>REMOTE CONTROL UNIT</div><div><div><div><div>EXIT</div><div>3</div><div>B DRIVE ▲</div><div>6</div><div>B DRIVE ▼</div><div>9</div></div><div><div><div>1</div><div>4</div><div>R DRIVE ▼</div><div>7</div></div><div><div><div>2</div><div>5</div><div>8</div></div><div><div><div>0</div><div>OSD ON / OFF</div></div></div></div></div></div><div><div>1. Receive the NTSC black & white signal (color off).</div><div>2. Select the STANDARD mode on the VIDEO STATUS.</div><div>3. Select that COLOR TEMP is set at the LOW mode.</div><div>4. Select the 4.HIGH-LIGHT, and set the initial setting values of the WHITE BALANCE (S10 & S12 of HIGH LIGHT) on the SERVICE MENU.</div><div>5. Press the 0 key, then setting values appear.</div><div>6. Adjust using 4 / 7 (R DRIVE), 6 / 9 (B DRIVE) key of number keyso that the natural white should be visible.</div><div>7. Input the 480i component black & white signal from COMPONENT VIDEO terminal.</div><div>8. Repeat steps 4 ~ 6 above.</div><div>9. Input the 1080i component black & white signal from COMPONENT VIDEO terminal.</div><div>10. Repeat steps 4 ~ 6 above.</div><div>11. Press the MUTING key and memorize the set values .</div></div><div><div>INITIAL SETTING VALUE</div><table><tr><th rowspan="2">Item</th><th colspan="3">Setting value (STANDARD LOW)</th></tr><tr><th>NT SC</th><th>480i</th><th>1080i</th></tr><tr><td>S10</td><td>075</td><td>077</td><td>078</td></tr><tr><td>S12</td><td>073</td><td>076</td><td>072</td></tr></table></div></div></div></div>	Item	Setting value (STANDARD LOW)			NT SC	480i	1080i	S10	075	077	078	S12	073	076	072
Item	Setting value (STANDARD LOW)																		
	NT SC	480i	1080i																
S10	075	077	078																
S12	073	076	072																

Item	Measuring Instrument	Test point	Adjustment Item	Description
SPLIT WHITE BALANCE (High Light) adjustment	Signal generator Remote control unit		ADS012 : R OFFSET ADS014 : B OFFSET	<ol style="list-style-type: none"> 1. Select SPLIT mode. 2. Receive the NTSC black & white signal both the pictures. 3. Select 8.PP from SERVICE MENU. 4. Select ADS012 < R OFFSET > and ADS014 < B OFFSET > with FUNCTION (▲/▼) key. 5. Adjust ADS012 and ADS014, so that a SUB screen may become the same as a MAIN screen. (Fig.1). 6. Press the MUTING key and memorize the set values.
<p style="text-align: center;">TWIN PICTURE</p>  <p style="text-align: center;">Fig.1</p>				

Item	Measuring Instrument	Test point	Adjustment Item	Description		
SUB BRIGHT adjustment	Signal generator Remote control unit		S03 : SUB BRIGHT	1. Receive the NTSC black & white signal. 2. Select the STANDARD mode on the VIDEO STATUS. 3. Select that COLOR TEMP is set at the LOW mode. 4. Select 1.PICTURE/SOUND from SERVICE MENU. 5. Select S03<SUB BRIGHT> with FUNCTION (▲/▼) key. 6. Set the initial setting value with the FUNCTION (◀/▶) key. (Table1) 7. Adjust S03, not to flash part of black on the screen. 8. Press the MUTING key and memorize the set values. 9. Select THEATER / LOW white balance, and then repeat steps 4 ~ 8 above. 10. Input 480i component black & white signal from COMPONENT VIDEO terminal 11. Select STANDARD / LOW mode, and then repeat steps 4 ~ 8 above. 12. Select THEATER / LOW mode, and then repeat steps 4 ~ 8 above. 13. Input 1080i component black & white signal from COMPONENT VIDEO terminal 14. Select STANDARD / LOW mode, and then repeat steps 4 ~ 8 above. 15. Select THEATER / LOW mode, and then repeat steps 4 ~ 8 above.		
S03 : SUB BRIGHT						
Signal Item	INITIAL SETTING VALUE					
	NTSC		480i		1080i	
Setting value	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
	133	135	130	133	131	135
Table 1						

Item	Measuring Instrument	Test point	Adjustment Item	Description		
SUB CONTRAST adjustment	Signal generator		S04 : SUB CONT.	<div>1. Receive the NTSC black & white signal.</div> <div>2. Select the STANDARD mode on the VIDEO STATUS.</div> <div>3. Select that COLOR TEMP is set at the LOW mode.</div> <div>4. Select 1.PICTURE/SOUND from SERVICE MENU.</div> <div>5. Select S04<SUB CONT> with FUNCTION (▲/▼) key.</div> <div>6. Set the Initial setting value with FUNCTION (◀/▶) key. (Table 2)</div> <div>7. If the contrast is not the best with the initial setting value, make fine adjustment of the S04<SUB CONT.> until you get the optimum contrast.</div> <div>8. Press the MUTING key and memorize the set values.</div> <div>9. Select THEATER / LOW, and then repeat steps 4.~8. above.</div> <div>10. Input 480i component black & white signal from COMPONENT VIDEO terminal.</div> <div>11. Repeat steps 4 ~ 9 above.</div> <div>12. Receive 1080i component black & white signal from COMPONENT VIDEO terminal.</div> <div>13. Repeat steps 4 ~ 9 above.</div>		
	Remote control unit					
S04 : SUB CONTRAST						
<div><div>Signal</div><div>Item</div></div>	INITIAL SETTING VALUE					
	NTSC		480i		1080i	
Setting value	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
	063	046	080	047	084	046
Table 2						

Item	Measuring Instrument	Test point	Adjustment Item	Description
SPLIT SUB BRIGHT / SUB CONTRAST adjustment	Signal generator Remote control unit		ADS013 : SUB BRIGHT VCS008 : SUB CONTRAST	<ol style="list-style-type: none"> 1. Select SPLIT mode. 2. Receive the NTSC black & white signal to both pictures. 3. Select 8.PP from SERVICE MENU. 4. Select ADS013< SUB BRIGHT > or VCS008 < SUB CONTRAST > with FUNCTION (▲/▼) key. 5. Adjust ADS013 or VCS008 to right picture is same as left picture. 6. Press the MUTING key and memorize the set values.

Item	Measuring Instrument	Test point	Adjustment Item	Description			
SUB COLOR / SUB TINT / B-Y GAIN adjustment	Signal generator Oscilloscope Remote control unit	TP-R TP-B TP-E(↘)	S01 : SUB COLOR S02 : SUB TINT S07 : B-Y GAIN VCM004 : SUB COLOR VCM001 : SUB TINT	NTSC adjustment 1. Receive the NTSC color bar. 2. Select STANDARD mode. 3. Connect the oscilloscope to TP-R. 4. Select 8.PP from SERVICE MENU. 5. Adjust VCM004 <SUB COLOR> and VCM001 <SUB TINT> to be following setting value A[V] . (Refer to the below table) 6. Select THEATER mode and then adjust S01<SUB COLOR> and S02<SUB TINT> to be following setting value B[V] same as above. (Refer to the below table) 7. Connect the oscilloscope to TP-B. 8. Select standard and then adjust S07<B-Y GAIN> to be setting value C[V] . (Refer to the below table) 9. Select theater and then adjust S07<B-Y GAIN> to be setting value D[V] . (Refer to the below table) 10. Confirm that low-light is not different after adjusting COLOR, TINT and B-Y GAIN. If it is green or magenta, to adjust low-light again. If adjust again, to set offset value again. 11. Press the MUTING key and memorize the set values. Component input (480i / 480p / 1080i) adjustment 1. Input the 480i component color bar from COMPONENT VIDEO terminal. 2. Select STANDARD mode. 3. Select 1.PICTURE/SOUND from SERVICE MENU. 4. Connect the oscilloscope to TP-R. 5. Adjust S01<SUB COLOR> and S02<SUB TINT> to be following setting value A[V] . (Refer to the below table) 6. Select THEATER and then adjust S01<SUB COLOR> and S02<SUB TINT> to be following setting value B[V] same as above. (Refer to the below table) 7. Connect the oscilloscope to TP-B. 8. Select STANDARD mode and then adjust S07<B-Y GAIN> to be setting value C[V] . (Refer to the below table) 9. Select THEATER mode and then adjust S07<B-Y GAIN> to be setting value D[V] . (Refer to the below table) 10. Input 480p component color bar from COMPONENT VIDEO terminal and then repeat steps 3 ~ 9 above. 11. Input 1080i component color bar from COMPONENT VIDEO terminal and then repeat steps 3 ~ 9 above. 12. Confirm that low-light is not different after adjusting color, Tint and B-Y Gain. If it is green or magenta, to adjust low-light again. If adjust again, to set offset value again. 13. Press the MUTING key and memorize the set values.			
<div><p>Fig. 1</p><p>Fig. 2</p></div>							
Setting item Signal	Setting value A[V]		Setting value B[V]		Setting value C[V]	Setting value D[V]	
	Standard		Theater		Standard	Theater	
	S01 VCM004 (W-R)	S02 VCM001 (W-Y)	S01 (W-R)	S02 (W-Y)	S07 (W-B)	S07 (W-B)	
	NTSC	+28	+14	+19	+7	+10	+18
	1080i	+7	+6	+5	+7	-24	-9
480i	+19	+11	+7	+1	-17	+2	
480p	+19	+14	+11	+2	-25	-12	
Table							

Item	Measuring Instrument	Test point	Adjustment Item	Description
DIGITAL INPUT (HDCP) SUB COLOR / SUB TINT / B-Y GAIN adjustment	Signal generator Remote control unit	TP-R TP-B TP-E(↗)	S01: SUB COLOR S02: SUB TINT	<ul style="list-style-type: none"> COLOR, TINT, B-Y GAIN adjustment at 480p should be finished. <ol style="list-style-type: none"> Input HDCP (digital) 480p color bar signal from DIGITAL IN terminal. Select STANDARD on VIDEO STATUS. Select 1.PICTURE/SOUND from SERVICE MENU. Input the same value adjusted at 480p STANDARD to the setting value S01 and S02. Select THEATER on VIDEO STATUS. Input the same value adjusted at 480p THEATER to the setting value S01 and S02. Press the MUTING key and memorize the set values. Input HDCP (digital) 1080i color bar signal from DIGITAL IN terminal Select STANDARD on VIDEO STATUS. Input the same value adjusted at 1080i STANDARD to the setting value S01 and S02. Select THEATER on VIDEO STATUS. Input the same value adjusted at 1080i THEATER to the setting value S01 and S02. Press the MUTING key and memorize the set values.

Item	Measuring Instrument	Test point	Adjustment Item	Description
SPLIT SUB COLOR / SUB TINT adjustment	Signal generator Oscilloscope Remote control unit	TP-R	VCS004: SUB DECODER COLOR VCS001: SUB DECODER TINT	<ol style="list-style-type: none"> Select SPLIT mode. Receive NTSC color bar signal to sub (right) screen and NTSC whole black signal to main (left) screen (Fig. 1). Select 8.PP from SERVICE MENU. Connect the oscilloscope to TP-R. Adjust VCS004< SUB DECODER COLOR>, VCS001< SUB DECODER TINT> to adjustment point (A)[V] (Fig. 2). Press the MUTING key and memorize the set values.

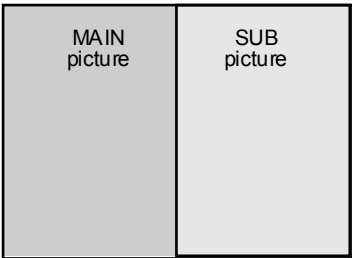


Fig. 1

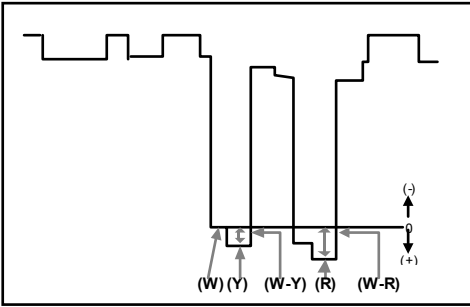


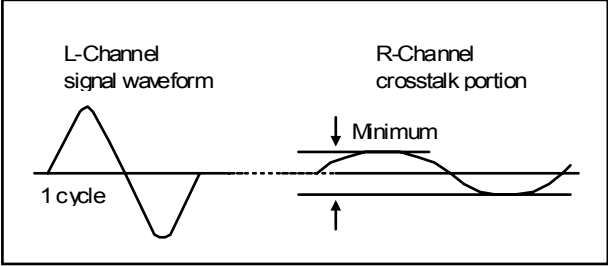
Fig. 2

setting value

	Adjustment Point (A[V])	
(A)	VCS004(W-R)	VCS001C(W-Y)
	+22V	+12V

MTS ADJUSTMENT

Item	Measuring Instrument	Test point	Adjustment Item	Description
MTS INPUT LEVEL check	Remote control unit		A02 : IN LEVEL	<ol style="list-style-type: none"> 1. Select 1.PICTURE / SOUND from SERVICE MENU. 2. Select the A02<IN LEVEL> with FUNCTION (▲/▼) key. 3. Verify that the A02<IN LEVEL> is set at its initial setting value.
MTS STEREO VCO adjustment	TV audio multiplex signal generator Frequency counter Remote control unit	AUDIO OUT R output	A03 : FH MONITOR A04 : STEREO VCO	<ol style="list-style-type: none"> 1. Receive the RF signal (non-modulated sound signal) from the antenna terminal. 2. Select the A03<FH MONITOR> with FUNCTION (▲/▼) key, and change the setting value from 0 to 1. 3. Connect the frequency counter to R output pin of the AUDIO OUT. 4. Select the A04<STEREO VCO> with FUNCTION (▲/▼) key. 5. Set the initial setting value of the No.4 STEREO VCO with the FUNCTION (◀/▶) key. 6. Adjust the A04 <STEREO VCO> so that the frequency counter will display $15.73\text{kHz} \pm 0.1\text{kHz}$. * The frequency counter indication should be stable. 7. Select the A03<FH MONITOR> with FUNCTION (▲/▼) key, and reset the setting value from 1 to 0.
MTS SAP VCO adjustment	TV audio multiplex signal generator Frequency counter Remote control unit	S2 Connector 3-pin:GND 4-pin:SOA [RECEIVER PWB] AUDIO OUT R output	A09 : 5FH MON. A10 : SAP VCO	<ol style="list-style-type: none"> 1. Receive the RF signal (non-modulated sound signal) from the antenna terminal. 2. Connect between pin ④ of S2 connector and GND (pin ③ of S2 connector) through $1\text{M}\Omega$ resistor. 3. Select the A09<5FH MON> with FUNCTION (▲/▼) key, and reset the setting value from 0 to 1. 4. Connect the frequency counter to R output pin of the AUDIO OUT. 5. Select the A10<SAP VCO> with FUNCTION (▲/▼) key. 6. Set the initial setting value of A10<SAP VCO> with of FUNCTION (◀/▶) key. 7. Adjust the A10 <SAP VCO> so that the frequency counter will display $78.67\text{kHz} \pm 0.5\text{kHz}$. * The frequency counter indication should be stable. 8. Select the A09<5FH MON> with FUNCTION (▲/▼) key, and reset the setting value from 1 to 0.
MTS FILTER check	TV audio multiplex signal generator Oscilloscope Remote control unit	S2 Connector 2-pin:R [RECEIVER PWB]	A05 : PILOT A06 : FILTER	<ol style="list-style-type: none"> 1. Receive the RF signal (MTS pilot signal) from the antenna terminal. 2. Select the A05<PILOT> with FUNCTION (▲/▼) key, and reset the setting value from 1 to 0. 3. Connect the oscilloscope to ② pin of S2 connector. 4. Select the A06<FILTER> with FUNCTION (▲/▼) key. 5. Adjust the A06<FILTER> so that the waveform will be minimum. 6. Select the A05<PILOT> with FUNCTION (▲/▼) key, and reset the setting value from 1 to 0.

Item	Measuring Instrument	Test point	Adjustment Item	Description
MTS SEPARATION adjustment	TV audio multiplex signal generator Oscilloscope Remote control unit	AUDIO OUT L output R output	A07 : LOW SEP. A08 : HI SEP.	<ol style="list-style-type: none"> 1. Input the stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal. 2. Connect an oscilloscope to L OUTPUT pin of the AUDIO OUT, and display one cycle portion of the 300Hz signal. 3. Change the connection of the oscilloscope to R OUTPUT pin of the AUDIO OUT, and enlarge the voltage axis. 4. Select the A07<LOW SEP.> with FUNCTION (▲/▼)key. 5. Set the initial setting value of the A07<LOW SEP.> with theFUNCTION (◀/▶) key. 6. Adjust the A07 < LOW SEP. > so that the stroke element of the 300Hz signal will become minimum. 7. Change the signal to 3kHz, and similarly adjust the A08 <HI SEP.>.
				

HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

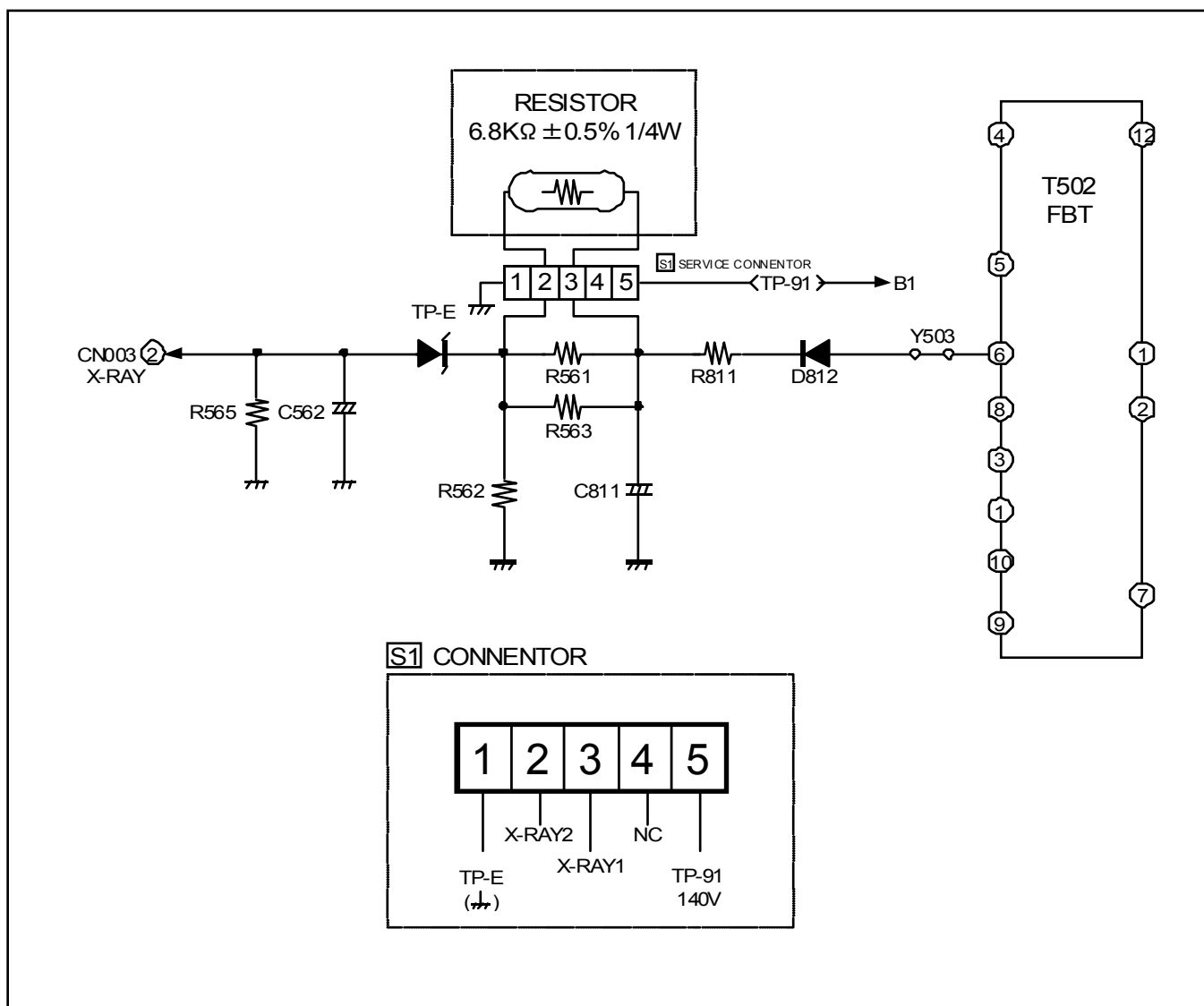
1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit.

This circuit shall be checked to operate correctly.

2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

- (1) Turn the power switch ON.
- (2) As shown in figure below, set the resistor (between **S2** connector 1 & 5).
- (3) Make sure that the screen picture disappears (no raster).
- (4) Temporarily unplug the power cord.
- (5) Remove the resistor (between **S2** connector 1 & 5).
- (6) Again plug the power cord, make sure that normal pictures is displayed on the screen.



TROUBLESHOOTING

SELF CHECK FUNCTIONS

This model has self-check functions that inform of the failure of the TV by detecting abnormality. Operational state is always monitored and the identified is memorized on the record.

HOW TO ENTER THE SELF-CHECK MODE

1. During the stand-by mode, turn the power on while pressing the volume (▼) button on the TV set.

HOW TO EXIT FROM THE SELF-CHECK MODE

1. By using the remote control unit, turn the power off. At this time, the failure record is cleared.
2. Take off the AC plug from the wall outlet. At this time, the failure record is not cleared.

SELF-CHECK DISPLAY

The self-check results are shown on the following display.
Method of indication when the raster is not displayed (Fig.1).

Each failure is shown by turning POWER LED on and off at specified intervals.

Item	POWER LED ON / OFF intervals
X-ray protection	Turning on and off 0.1-second intervals
B1 Over-current protection	Turning on and off 1-second intervals
Low B short protection	Turning on and off 2-second intervals

EXPLANATION FOR ACTIVATION OF SELF-CHECK FUNCTIONS

- For X-ray protection, B1 over-current protection and low B short protection, the power of the TV is turned off if NG is detected. Immediately after the power is turned off, POWER LED will be turning on and off.
When the power is turned off, you cannot turn the power on again until the AC plug is taken out and put in again.
- The latest failure is stored on the record at the end.
The failure record for each check item is counted to the number of 9 at the maximum, When more than 9 failures are stored on the record, the counter remains stopped at 9.
- Because of the timing of Vcc start-up and shut-down of the IC connecting to the I²C bus during which the power is turned on and off, the operation may be interpreted as an error.
In order to avoid the misinterpretation, the self-check functions should be started at about 3 seconds after the power is turned on.

ITEM	RESULT	COUNT
XRAY	NG2	OCP
LOB	OK	TIM
SYNC	M:OK	S:OK
MEM	OK	AVSW
VCD	NG2	BS
AIO	OK	YC
TUN	OK	GCR
PP	NG4	IP
		OK

Fig. 1 SELF-CHECK SCREEN

Indication	Check item	Details of detection	Method of detection
XRAY	X-ray radiation protection	Operation of X-ray protection circuit.	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 200ms, the power is turned off automatically.
OCP	B1 over-current protection	An B1 over-current is detected.	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 200ms, the power is turned off automatically.
LOB	Low B short protection	Operation of low B short protection circuit.	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 200ms, the power is turned off automatically.
TIM	Timer	The AC power frequency is changed as follows : 50Hz→60Hz 60Hz→50Hz	Periodically check the power frequency by counting the AC pulse and monitor whether or not the frequency is changed except for the time immediately after resetting.
SYNC	Presence or absence of synchronized signal	Presence of synchronized signal. HD : HD signal M : NTSC main signal S : NTSC sub signal * AN5392FBQ	When entering the self-check mode, "OK" is shown. While running the mode with picture signal, if the synchronized signal is disappeared, "NG" is shown.
MEM	Memory (EEP-ROM)	ACK is returned when I ² C traffic is carried out.	The state is monitored every time when I ² C traffic is carried out. Then the state is counted as a failure if ACK is not returned.
AVSW	AV switch	Ditto MM1519XQ and CXA2069Q	Ditto
VCD	Video / chroma process (RGB process)	Ditto AN5392FBQ	Ditto
BS	Broadcast satellite tuner	Not used	
AIO	Audio process (MTS decode / audio control)	Ditto UPC1851BCU	Ditto
YC	3D YC separation	Ditto UPD64083GF	Ditto
TUN	RF tuner	Ditto Main & sub RF tuner	Ditto
GCR	Ghost reduction	Not used	
PP	Picture & Picture (Multi-screen)	Ditto TMS57128GJG	Ditto
IP	I-P conversion (DSD : enhancer)	Ditto JCC5054	Ditto

PARTS LIST

CAUTION

- The parts identified by the \triangle symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines — in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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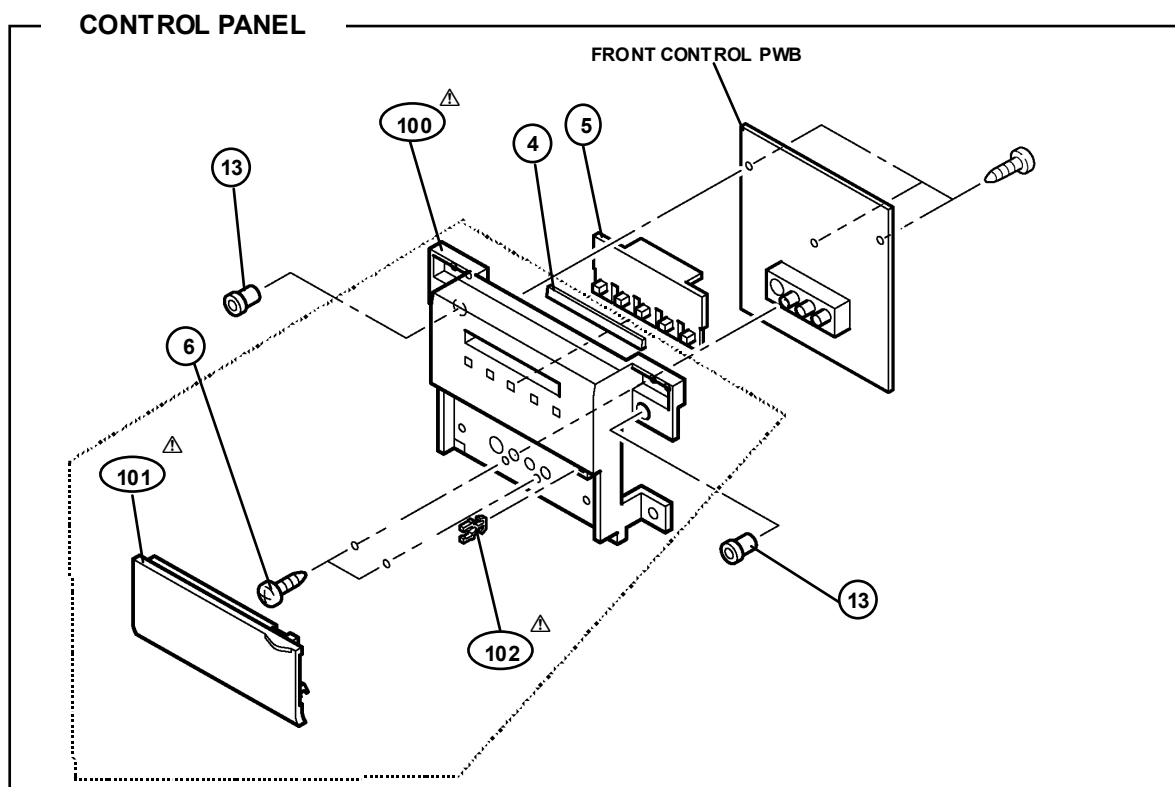
USING PW BOARD & REMOTE CONTROL UNIT

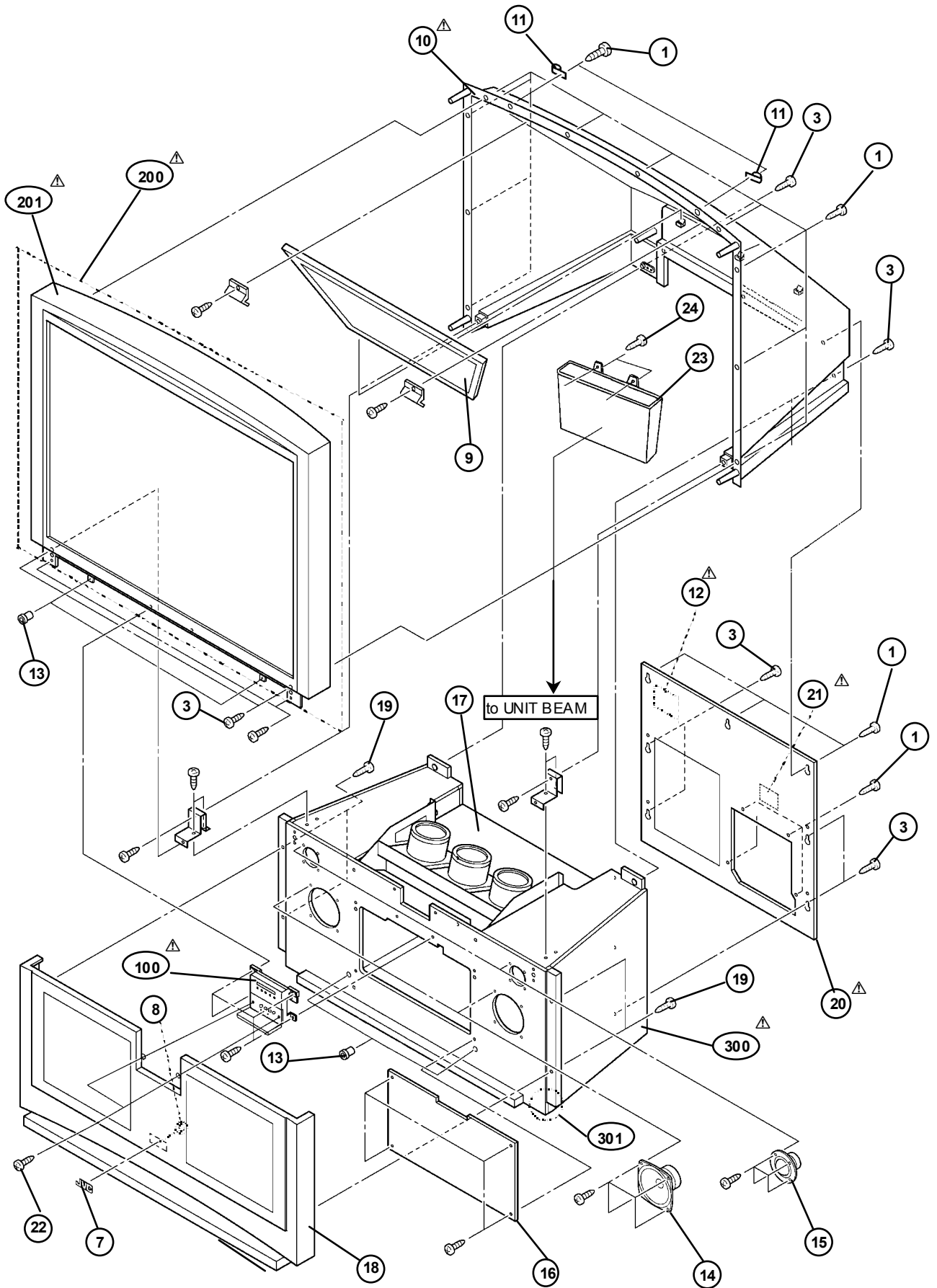
PWB ASS'Y	Model
	AV-56WP30
MAIN PWB ASSY	SSB-1053A-M2
POWER&DEF. PWB ASSY	SSB-2053A-M2
R CRT SOCKET PWB ASSY	SSB-3153A-M2
G CRT SOCKET PWB ASSY	SSB-3253A-M2
B CRT SOCKET PWB ASSY	SSB-3353A-M2
CONVERGENCE PWB ASSY	SSB-5053A-M2
R VM PWB ASSY	SSB-7153A-M2
G VM PWB ASSY	SSB-7253A-M2
B VM PWB ASSY	SSB-7353A-M2
FRONT CONTROL PWB ASSY	SSB0L053A-M2
FRONT I/F PWB ASSY	SSB0L253A-M2
RECEIVER PWB ASSY	SSB0R253A-M2
CENTER SPEAKER PWB ASSY	SSB0A053A-M2
AV JACK PWB ASSY	SSB0J053A-M2
LINE FILTER PWB ASSY	SSB-9053A-M2
DEF. OSC. PWB ASSY	SSB0H053A-M2
CONVERGENCE OSD PWB ASSY	SSB0T053A-M2
REMOCON SENSOR PWB ASSY	SSB-8053A-M2
DIGITAL INPUT MODULE PWB	SSB-7853A-M2
I-P CONVERT MODULE PWB	SSB0D053A-M2
REMOTE CONTROL UNIT	RM-C322G-1A

EXPLODED VIEW PARTS LIST (I)

△ Ref.No.	Part No.	Part Name	Description
1	QYSBSFG4016M	TAP SCREW	(x 19)
3	QYSBSAG4018M	TAP SCREW	(x 8)
4	LC31749-001A-A	LED LENS	
5	LC31751-002A-A	KNOB	
6	QYSBSF3012M	TAP SCREW	(x 2)
7	CM47752-004	BRAND MARK	
8	QYNSS3000P	PUSH NUT	
9	LC31954-001A-A	MIRROR	
△ 10	LC11407-001B-A	BACK COVER	
11	LC40690-001A	CLAMP	(x 2)
△ 12	LC31139-001A-A	RATING LABEL	
13	LC41237-001A	RUBBER CATCH	(x 6)
14	QAS0113-001	SPEAKER	(x 2) SP01-02
15	QAS0105-001	SPEAKER	(x 2) SP03-04
16	LC31757-001D-A	FRONT BOARD	
17	LC20981-003A-A	SHADING BOARD	
18	LC11406-001B-A	SPEAKER GRILL	
19	QYSBSFG4020M	TAP SCREW	(x 4)
△ 20	LC20982-001B-A	BACK BOARD	
△ 21	LC41424-001A-A	HDCP WARNING	
22	QYSBSF3012M	TAP SCREW	(x 2)
23	CM22765-001-A	COOLANT P	
24	QYSBSF4012Z	TAP SCREW	(x 2)
△ 100	LC31883-002B-A	CONTROL ASSY	Inc. No. 101~102
△ 101	LC31829-002A-A	DOOR	
△ 102	PU60109	CATCHER	
△ 200	56WP30SCSAM2	SCREEN ASSY	Inc. No. 201 (SERVICE)
△ 201	LC11405-001B-A	FRONT PANEL	
△ 300	LC11408-001A-A	BODY	Inc. No. 301
301	CM36396-00B-A	CASTER	(x 4)

EXPLODED VIEW (I)



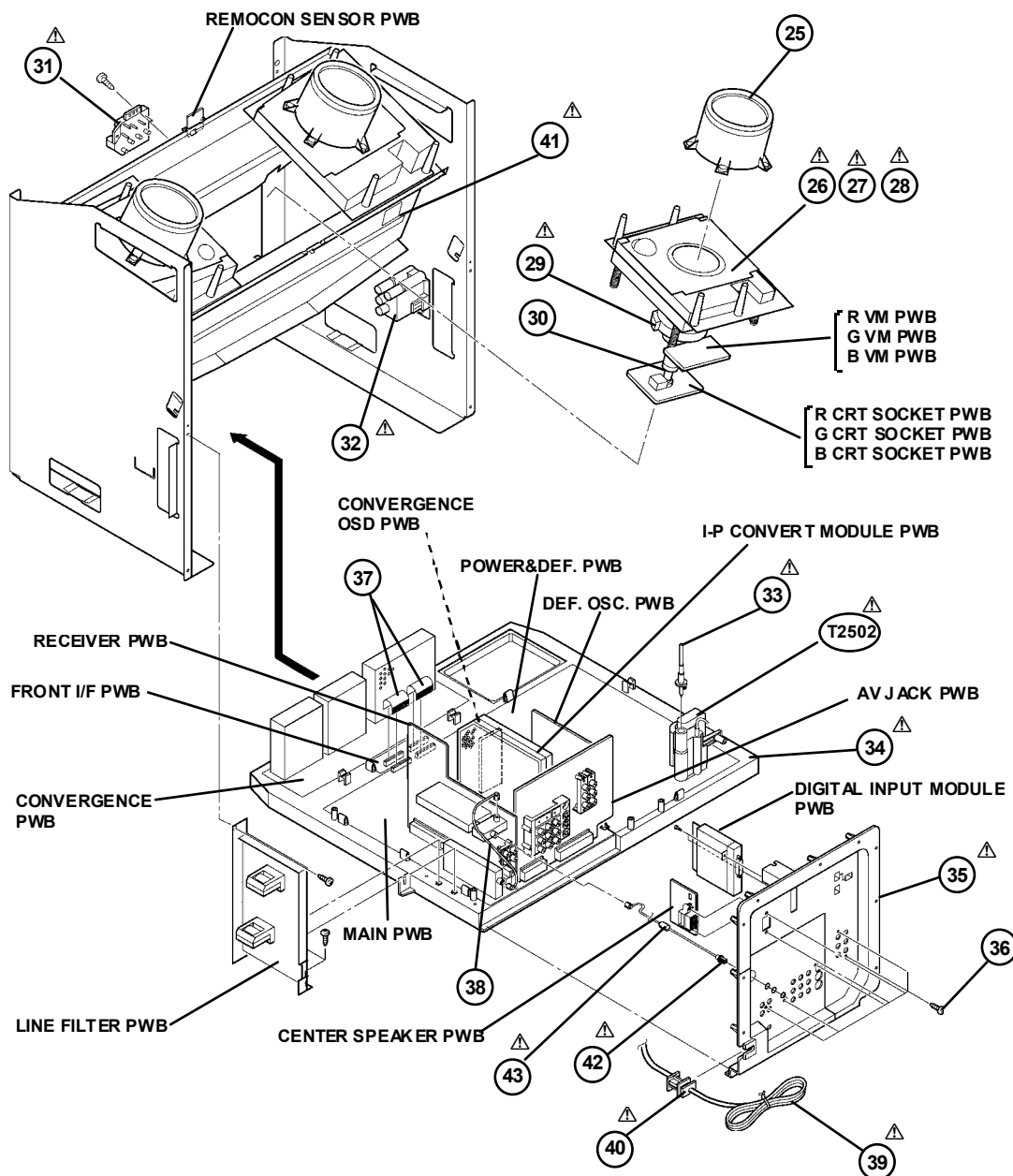


EXPLODED VIEW PARTS LIST (II)

△ Ref.No.	Part No.	Part Name	Description
25	LC31736-001A-A	PJ LENS D	
△ 26	R CRT SA-M2	R CRT ASSY	
△ 27	G CRT SA-M2	G CRT ASSY	
△ 28	B CRT SA-M2	B CRT ASSY	
△ 29	QQD0069-001	DEF YOKE	
△ 30	QAL0398-001	PC MAGNET	
△ 31	QAE0006-001	FOCUS PACK	
△ 32	QAE0005-001	DIVIDER	
△ 33	QNZ0563-001	ANODE WIRE	
△ 34	LC11249-001A-A	CHASSIS BASE	
△ 35	LC11250-001B-A	AV BOARD	

△ Ref.No.	Part No.	Part Name	Description
36	QYSBSF3012M	TAP SCREW	(x7)
37	CHF0125-06BD	FFC WIRE	(x2)
38	WJX0014-001A	E-COAXIAL	
△ 39	QMPD200-200-JC	POWER CORD	or QMPD390-200-JS
△ 40	LC20106-001D-A	POWER CORD CLAMP	
△ 41	GQ30034-001A-A	WARNING LABEL	
△ 42	QAM0411-001	F CABLE	
△ 43	QQR0490-001	NOISE FILTER	
△ T2502	QQH0113-002	FBT	
△	QQR0491-001	CORE FILTER	(x3)
△	QQR0942-001	CORE FILTER	

EXPLODED VIEW (II)



PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (SSB-1053A-M2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1001	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1004	NRS463J-332X	MG R	3.3kΩ 1/16W J
R1005	NRS463J-473X	MG R	47kΩ 1/16W J
R1006	NRS463J-473X	MG R	47kΩ 1/16W J
R1007	NRS463J-152X	MG R	1.5kΩ 1/16W J
R1011	NRS463J-102X	MG R	1kΩ 1/16W J
R1013	NRS463J-101X	MG R	100Ω 1/16W J
R1014	NRS463J-223X	MG R	22kΩ 1/16W J
R1020	NRS463J-473X	MG R	47kΩ 1/16W J
R1021	NRS463J-103X	MG R	10kΩ 1/16W J
R1022	NRS463J-101X	MG R	100Ω 1/16W J
R1023	NRS463J-101X	MG R	100Ω 1/16W J
R1024	NRS463J-391X	MG R	390Ω 1/16W J
R1025	NRS463J-182X	MG R	1.8kΩ 1/16W J
R1050	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1051	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1052	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1101	NRS463J-473X	MG R	47kΩ 1/16W J
R1102	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1103	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1104	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1117	QRN143J-0R0X	C R	0.0Ω 1/4W J
R1122	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1131	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1133	NRS463J-121X	MG R	120Ω 1/16W J
R1134	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1135	NRS463J-121X	MG R	120Ω 1/16W J
R1136	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1137	NRS463J-121X	MG R	120Ω 1/16W J
R1140	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1141	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1143	NRS463J-101X	MG R	100Ω 1/16W J
R1144	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1145	NRS463J-471X	MG R	470Ω 1/16W J
R1147	NRS463J-681X	MG R	680Ω 1/16W J
R1149	NRS463J-681X	MG R	680Ω 1/16W J
R1153	NRS463J-221X	MG R	220Ω 1/16W J
R1154	NRS463J-221X	MG R	220Ω 1/16W J
R1157	NRS463J-470X	MG R	47Ω 1/16W J
R1158	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1159	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1161	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1163	NRS463J-224X	MG R	220kΩ 1/16W J
R1164	NRS463J-224X	MG R	220kΩ 1/16W J
R1165	NRS463J-224X	MG R	220kΩ 1/16W J
R1166	NRS463J-471X	MG R	470Ω 1/16W J
R1167	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1174	NRS463J-101X	MG R	100Ω 1/16W J
R1175	NRS463J-224X	MG R	220kΩ 1/16W J
R1176	NRS463J-224X	MG R	220kΩ 1/16W J
R1177	NRS463J-224X	MG R	220kΩ 1/16W J
R1179	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1180	NRS463J-221X	MG R	220Ω 1/16W J
R1181	NRS463J-221X	MG R	220Ω 1/16W J
R1182	NRS463J-221X	MG R	220Ω 1/16W J
R1183	NRS463J-101X	MG R	100Ω 1/16W J
R1184	NRS463J-101X	MG R	100Ω 1/16W J
R1185	NRS463J-101X	MG R	100Ω 1/16W J
R1186	NRS463J-101X	MG R	100Ω 1/16W J
R1187	NRS463J-224X	MG R	220kΩ 1/16W J
R1188	NRS463J-224X	MG R	220kΩ 1/16W J
R1189	NRS463J-224X	MG R	220kΩ 1/16W J
R1190	NRS463J-101X	MG R	100Ω 1/16W J
R1198	NRS463J-271X	MG R	270Ω 1/16W J
R1199	NRV463D-102X	MF R	1kΩ 1/16W D
R1202	NRS463J-101X	MG R	100Ω 1/16W J
R1203	NRS463J-101X	MG R	100Ω 1/16W J
R1213	NRS463J-101X	MG R	100Ω 1/16W J
R1214	NRS463J-101X	MG R	100Ω 1/16W J
R1218	NRS463J-822X	MG R	8.2kΩ 1/16W J
R1219	NRS463J-331X	MG R	330Ω 1/16W J

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1220	NRS463J-101X	MG R	100Ω 1/16W J
R1221	NRS463J-101X	MG R	100Ω 1/16W J
R1224	NRS463J-101X	MG R	100Ω 1/16W J
R1225	NRS463J-101X	MG R	100Ω 1/16W J
R1226	NRS463J-103X	MG R	10kΩ 1/16W J
R1227	NRS463J-103X	MG R	10kΩ 1/16W J
R1228	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1229	NRS463J-103X	MG R	10kΩ 1/16W J
R1230	NRS463J-101X	MG R	100Ω 1/16W J
R1231	NRS463J-221X	MG R	220Ω 1/16W J
R1232	NRS463J-562X	MG R	5.6kΩ 1/16W J
R1234	NRS463J-562X	MG R	5.6kΩ 1/16W J
R1235	NRS463J-221X	MG R	220Ω 1/16W J
R1236	NRS463J-562X	MG R	5.6kΩ 1/16W J
R1241	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1242	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1250	NRS463J-332X	MG R	3.3kΩ 1/16W J
R1251	NRS463J-101X	MG R	100Ω 1/16W J
R1252	NRS463J-152X	MG R	1.5kΩ 1/16W J
R1253	NRS463J-102X	MG R	1kΩ 1/16W J
R1254	NRS463J-393X	MG R	39kΩ 1/16W J
R1258	NRS463J-102X	MG R	1kΩ 1/16W J
R1260	NRS463J-102X	MG R	1kΩ 1/16W J
R1264	NRS463J-152X	MG R	1.5kΩ 1/16W J
R1265	NRS463J-153X	MG R	15kΩ 1/16W J
R1268	NRS463J-272X	MG R	2.7kΩ 1/16W J
R1269	NRS463J-332X	MG R	3.3kΩ 1/16W J
R1270	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1271	NRS463J-332X	MG R	3.3kΩ 1/16W J
R1272	NRS463J-101X	MG R	100Ω 1/16W J
R1273	NRS463J-101X	MG R	100Ω 1/16W J
R1274	NRS402J-394X	MG R	390kΩ 1/10W J
R1275	NRS463J-101X	MG R	100Ω 1/16W J
R1276	NRS463J-101X	MG R	100Ω 1/16W J
R1278	NRS463J-471X	MG R	470Ω 1/16W J
R1279	NRS463J-331X	MG R	330Ω 1/16W J
R1280	NRS463J-101X	MG R	100Ω 1/16W J
R1282	NRV463D-103X	MF R	10kΩ 1/16W D
R1283	NRS463J-682X	MG R	6.8kΩ 1/16W J
R1284	NRS463J-391X	MG R	390Ω 1/16W J
R1301	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1302	NRS463J-472X	MG R	4.7kΩ 1/16W J
R1303	NRS463J-392X	MG R	3.9kΩ 1/16W J
R1304	NRS463J-101X	MG R	100Ω 1/16W J
R1306	NRS463J-105X	MG R	1MΩ 1/16W J
R1307	NRS463J-123X	MG R	12kΩ 1/16W J
R1308	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1309	NRS463J-124X	MG R	120kΩ 1/16W J
R1310	NRS463J-272X	MG R	2.7kΩ 1/16W J
R1311	NRS463J-101X	MG R	100Ω 1/16W J
R1312	NRS463J-101X	MG R	100Ω 1/16W J
R1313	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1314	NRS463J-103X	MG R	10kΩ 1/16W J
R1317	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1318	NRS463J-821X	MG R	820Ω 1/16W J
R1319	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1320	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1321	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1322	NRS463J-222X	MG R	2.2kΩ 1/16W J
R1323	NRS463J-104X	MG R	100kΩ 1/16W J
R1324	NRS463J-221X	MG R	220Ω 1/16W J
R1325	NRS463J-221X	MG R	220Ω 1/16W J
R1326	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R1327	NRS463J-221X	MG R	220Ω 1/16W J
R1328	NRS463J-101X	MG R	100Ω 1/16W J
R1329	NRS463J-101X	MG R	100Ω 1/16W J
R1330	NRS463J-182X	MG R	1.8kΩ 1/16W J
R1331	NRS463J-223X	MG R	22kΩ 1/16W J
R1332	NRS463J-182X	MG R	1.8kΩ 1/16W J
R1333	NRS463J-104X	MG R	100kΩ 1/16W J
R1334	NRS463J-151X	MG R	150Ω 1/16W J

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1335	NRSA63J-151X	MG R	150Ω 1/16W J
R1336	NRSA63J-151X	MG R	150Ω 1/16W J
R1337	NRSA63J-151X	MG R	150Ω 1/16W J
R1338	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R1339	NRSA63J-104X	MG R	100kΩ 1/16W J
R1340	NRSA63J-151X	MG R	150Ω 1/16W J
R1341	NRSA63J-151X	MG R	150Ω 1/16W J
R1342	NRVA63D-152X	MF R	1.5kΩ 1/16W D
R1343	NRVA63D-122X	MF R	1.2kΩ 1/16W D
R1344	NRSA63J-471X	MG R	470Ω 1/16W J
R1345	NRSA63J-471X	MG R	470Ω 1/16W J
R1346	NRSA63J-680X	MG R	68Ω 1/16W J
R1347	NRSA63J-680X	MG R	68Ω 1/16W J
R1348	NRSA63J-680X	MG R	68Ω 1/16W J
R1349	NRSA63J-471X	MG R	470Ω 1/16W J
R1350	NRSA63J-563X	MG R	56kΩ 1/16W J
R1352	NRSA63J-103X	MG R	10kΩ 1/16W J
R1353	NRSA63J-223X	MG R	22kΩ 1/16W J
R1354	NRSA63J-471X	MG R	470Ω 1/16W J
R1355	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1356	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R1359	NRSA63J-101X	MG R	100Ω 1/16W J
R1363	NRSA63J-101X	MG R	100Ω 1/16W J
R1364	NRSA63J-102X	MG R	1kΩ 1/16W J
R1366	NRSA63J-471X	MG R	470Ω 1/16W J
R1367	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R1368	NRSA63J-103X	MG R	10kΩ 1/16W J
R1369	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1370	NRVA63D-182X	MF R	1.8kΩ 1/16W D
R1371	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R1373	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R1374	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1377	NRSA63J-103X	MG R	10kΩ 1/16W J
R1378	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R1379	NRSA63J-102X	MG R	1kΩ 1/16W J
R1380	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1391	NRSA63J-221X	MG R	220Ω 1/16W J
R1392	NRSA63J-221X	MG R	220Ω 1/16W J
R1395	NRSA63J-102X	MG R	1kΩ 1/16W J
R1396	NRSA63J-561X	MG R	560Ω 1/16W J
R1401	NRSA63J-101X	MG R	100Ω 1/16W J
R1408	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1415	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1430	NRSA63J-101X	MG R	100Ω 1/16W J
R1432	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1434	NRSA63J-103X	MG R	10kΩ 1/16W J
R1435	NRSA63J-473X	MG R	47kΩ 1/16W J
R1441	NRSA63J-223X	MG R	22kΩ 1/16W J
R1442	NRSA63J-103X	MG R	10kΩ 1/16W J
R1450	NRSA63J-221X	MG R	220Ω 1/16W J
R1451	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R1452	NRSA63J-101X	MG R	100Ω 1/16W J
R1453	NRSA63J-391X	MG R	390Ω 1/16W J
R1454	NRSA63J-561X	MG R	560Ω 1/16W J
R1455	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1456	NRSA63J-223X	MG R	22kΩ 1/16W J
R1463	NRSA63J-102X	MG R	1kΩ 1/16W J
R1464	NRSA63J-122X	MG R	1.2kΩ 1/16W J
R1465	NRSA63J-102X	MG R	1kΩ 1/16W J
R1467	NRSA63J-103X	MG R	10kΩ 1/16W J
R1468	NRSA63J-101X	MG R	100Ω 1/16W J
R1469	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1470	NRSA63J-563X	MG R	56kΩ 1/16W J
R1472	NRSA63J-101X	MG R	100Ω 1/16W J
R1473	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R1474	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1475	NRSA63J-102X	MG R	1kΩ 1/16W J
R1477	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1478	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R1479	NRSA63J-101X	MG R	100Ω 1/16W J
R1480	NRSA63J-223X	MG R	22kΩ 1/16W J
R1481	NRSA63J-101X	MG R	100Ω 1/16W J
R1482	NRSA63J-103X	MG R	10kΩ 1/16W J

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1483	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R1484	NRSA63J-221X	MG R	220Ω 1/16W J
R1485	NRSA63J-391X	MG R	390Ω 1/16W J
R1486	NRSA63J-561X	MG R	560Ω 1/16W J
R1487	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1488	NRSA63J-223X	MG R	22kΩ 1/16W J
R1490	NRSA63J-102X	MG R	1kΩ 1/16W J
R1491	NRSA63J-122X	MG R	1.2kΩ 1/16W J
R1492	NRSA63J-102X	MG R	1kΩ 1/16W J
R1493	NRSA63J-102X	MG R	1kΩ 1/16W J
R1495	NRSA63J-103X	MG R	10kΩ 1/16W J
R1496	NRSA63J-101X	MG R	100Ω 1/16W J
R1497	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1498	NRSA63J-563X	MG R	56kΩ 1/16W J
R1501	NRSA63J-221X	MG R	220Ω 1/16W J
R1502	NRSA63J-221X	MG R	220Ω 1/16W J
R1503	NRSA63J-103X	MG R	10kΩ 1/16W J
R1507	NRSA63J-101X	MG R	100Ω 1/16W J
R1508	NRSA63J-101X	MG R	100Ω 1/16W J
R1514	NRSA63J-102X	MG R	1kΩ 1/16W J
R1515	NRSA63J-221X	MG R	220Ω 1/16W J
R1516	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1517	NRSA63J-221X	MG R	220Ω 1/16W J
R1518	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1519	NRSA63J-221X	MG R	220Ω 1/16W J
R1521	NRSA63J-221X	MG R	220Ω 1/16W J
R1522	NRSA63J-221X	MG R	220Ω 1/16W J
R1524	NRSA63J-221X	MG R	220Ω 1/16W J
R1526	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1527	NRSA63J-221X	MG R	220Ω 1/16W J
R1528	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1529	NRSA63J-221X	MG R	220Ω 1/16W J
R1530	NRSA63J-102X	MG R	1kΩ 1/16W J
R1531	NRSA63J-101X	MG R	100Ω 1/16W J
R1532	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1533	NRSA63J-221X	MG R	220Ω 1/16W J
R1534	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1535	NRSA63J-221X	MG R	220Ω 1/16W J
R1536	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1537	NRSA63J-221X	MG R	220Ω 1/16W J
R1538	NRSA63J-221X	MG R	220Ω 1/16W J
R1539	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1547	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1548	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1549	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1551	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1554	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1555	NRSA63J-103X	MG R	10kΩ 1/16W J
R1556	NRSA63J-101X	MG R	100Ω 1/16W J
R1557	NRSA63J-101X	MG R	100Ω 1/16W J
R1560	NRSA63J-102X	MG R	1kΩ 1/16W J
R1561	NRSA63J-101X	MG R	100Ω 1/16W J
R1562	NRSA63J-101X	MG R	100Ω 1/16W J
R1570	NRSA63J-103X	MG R	10kΩ 1/16W J
R1571	NRVA63D-152X	MF R	1.5kΩ 1/16W D
R1572	NRSA63J-471X	MG R	470Ω 1/16W J
R1576	NRSA63J-273X	MG R	27kΩ 1/16W J
R1577	NRSA63J-221X	MG R	220Ω 1/16W J
R1578	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1579	NRSA63J-221X	MG R	220Ω 1/16W J
R1581	NRSA63J-101X	MG R	100Ω 1/16W J
R1586	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1587	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1588	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1589	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1611	NRSA63J-563X	MG R	56kΩ 1/16W J
R1612	NRSA63J-563X	MG R	56kΩ 1/16W J
R1613	NRSA63J-102X	MG R	1kΩ 1/16W J
R1614	NRSA63J-104X	MG R	100kΩ 1/16W J
R1615	NRSA63J-563X	MG R	56kΩ 1/16W J
R1616	NRSA63J-153X	MG R	15kΩ 1/16W J
R1618	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1619	NRSA63J-0R0X	MG R	0.0Ω 1/16W J

△	Ref.No.	Part No.	Part Name	Description
		RESISTOR		
	R1634	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1635	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1638	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1639	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1644	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1654	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1655	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1656	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1658	NRS463J-103X	MG R	10kΩ 1/16W J
	R1659	NRS463J-103X	MG R	10kΩ 1/16W J
	R1661	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1663	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1665	NRS463J-222X	MG R	2.2kΩ 1/16W J
	R1666	NRS463J-472X	MG R	4.7kΩ 1/16W J
	R1667	NRS463J-222X	MG R	2.2kΩ 1/16W J
	R1668	NRS463J-222X	MG R	2.2kΩ 1/16W J
	R1669	NRS463J-472X	MG R	4.7kΩ 1/16W J
	R1670	NRS463J-222X	MG R	2.2kΩ 1/16W J
△	R1671	QRJ146J-2R2X	C R	2.2Ω 1/4W J
△	R1672	QRJ146J-2R2X	C R	2.2Ω 1/4W J
△	R1673	QRK126J-102X	C R	1kΩ 1/2W J
△	R1674	QRK126J-102X	C R	1kΩ 1/2W J
	R1680	NRS463J-822X	MG R	8.2kΩ 1/16W J
	R1681	NRS463J-473X	MG R	47kΩ 1/16W J
	R1682	NRS463J-103X	MG R	10kΩ 1/16W J
	R1691	NRS463J-104X	MG R	100kΩ 1/16W J
	R1701	NRS463J-104X	MG R	100kΩ 1/16W J
	R1702	NRS463J-103X	MG R	10kΩ 1/16W J
	R1703	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1704	NRS463J-221X	MG R	220Ω 1/16W J
	R1706	NRS463J-104X	MG R	100kΩ 1/16W J
	R1707	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1709	NRS463J-104X	MG R	100kΩ 1/16W J
	R1710	NRS463J-104X	MG R	100kΩ 1/16W J
	R1712	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1714	NRS463J-103X	MG R	10kΩ 1/16W J
	R1715	NRS463J-101X	MG R	100Ω 1/16W J
	R1716	NRS463J-101X	MG R	100Ω 1/16W J
	R1719	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1721	NRS463J-102X	MG R	1kΩ 1/16W J
	R1722	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1724	NRS463J-103X	MG R	10kΩ 1/16W J
	R1725	NRS463J-101X	MG R	100Ω 1/16W J
	R1726	NRS463J-101X	MG R	100Ω 1/16W J
	R1727	NRS463J-103X	MG R	10kΩ 1/16W J
	R1728	NRS463J-102X	MG R	1kΩ 1/16W J
	R1729	NRS463J-101X	MG R	100Ω 1/16W J
	R1730	NRS463J-272X	MG R	2.7kΩ 1/16W J
	R1731	NRS463J-101X	MG R	100Ω 1/16W J
	R1732	NRS463J-272X	MG R	2.7kΩ 1/16W J
	R1733	NRS463J-102X	MG R	1kΩ 1/16W J
	R1735	NRS463J-104X	MG R	100kΩ 1/16W J
	R1736	NRS463J-333X	MG R	33kΩ 1/16W J
	R1737	NRS463J-101X	MG R	100Ω 1/16W J
	R1738	NRS463J-333X	MG R	33kΩ 1/16W J
	R1744	NRS463J-101X	MG R	100Ω 1/16W J
	R1746	NRS463J-332X	MG R	3.3kΩ 1/16W J
	R1747	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1748	NRS463J-102X	MG R	1kΩ 1/16W J
	R1749	NRS463J-124X	MG R	120kΩ 1/16W J
	R1750	NRS463J-104X	MG R	100kΩ 1/16W J
	R1751	NRS463J-473X	MG R	47kΩ 1/16W J
	R1752	NRS463J-333X	MG R	33kΩ 1/16W J
	R1753	NRS463J-333X	MG R	33kΩ 1/16W J
	R1754	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1756	NRS463J-103X	MG R	10kΩ 1/16W J
	R1760	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1761	NRS463J-102X	MG R	1kΩ 1/16W J
	R1762	NRS463J-124X	MG R	120kΩ 1/16W J
	R1763	NRS463J-333X	MG R	33kΩ 1/16W J
	R1764	NRS463J-333X	MG R	33kΩ 1/16W J

△	Symbol No.	Part No.	Part Name	Description
		RESISTOR		
	R1765	NRS463J-102X	MG R	1kΩ 1/16W J
	R1766	NRS463J-332X	MG R	3.3kΩ 1/16W J
	R1767	NRS463J-151X	MG R	150Ω 1/16W J
	R1768	NRS463J-101X	MG R	100Ω 1/16W J
	R1770	NRS463J-101X	MG R	100Ω 1/16W J
	R1773	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1775	NRS463J-332X	MG R	3.3kΩ 1/16W J
	R1776	NRS463J-333X	MG R	33kΩ 1/16W J
	R1777	NRS463J-103X	MG R	10kΩ 1/16W J
	R1778	NRS463J-103X	MG R	10kΩ 1/16W J
	R1779	NRS463J-102X	MG R	1kΩ 1/16W J
	R1780	NRS463J-103X	MG R	10kΩ 1/16W J
	R1781	NRS463J-333X	MG R	33kΩ 1/16W J
	R1782	NRS463J-681X	MG R	680Ω 1/16W J
	R1783	NRS463J-101X	MG R	100Ω 1/16W J
	R1784	NRS463J-682X	MG R	6.8kΩ 1/16W J
	R1785	NRS463J-103X	MG R	10kΩ 1/16W J
	R1787	NRS463J-472X	MG R	4.7kΩ 1/16W J
	R1788	NRS463J-680X	MG R	68Ω 1/16W J
	R1789	NRS463J-680X	MG R	68Ω 1/16W J
	R1790	NRS463J-680X	MG R	68Ω 1/16W J
	R1791	NRS463J-101X	MG R	100Ω 1/16W J
	R1792	NRS463J-102X	MG R	1kΩ 1/16W J
	R1793	NRS463J-104X	MG R	100kΩ 1/16W J
	R1794	NRS463J-101X	MG R	100Ω 1/16W J
	R1802	NRS463J-104X	MG R	100kΩ 1/16W J
	R1803	NRS463J-473X	MG R	47kΩ 1/16W J
	R1804	NRS463J-101X	MG R	100Ω 1/16W J
	R1806	NRS463J-101X	MG R	100Ω 1/16W J
	R1808	NRS463J-151X	MG R	150Ω 1/16W J
	R1811	NRS463J-101X	MG R	100Ω 1/16W J
	R1814	NRS463J-102X	MG R	1kΩ 1/16W J
	R1815	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1816	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1817	NRS463J-101X	MG R	100Ω 1/16W J
	R1818	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1820	NRS463J-393X	MG R	39kΩ 1/16W J
	R1822	NRS463J-472X	MG R	4.7kΩ 1/16W J
	R1823	NRS463J-124X	MG R	120kΩ 1/16W J
	R1829	NRS463J-103X	MG R	10kΩ 1/16W J
	R1830	NRS463J-102X	MG R	1kΩ 1/16W J
	R1831	NRS463J-102X	MG R	1kΩ 1/16W J
	R1832	NRS463J-103X	MG R	10kΩ 1/16W J
	R1834	NRS463J-102X	MG R	1kΩ 1/16W J
	R1836	NRS463J-101X	MG R	100Ω 1/16W J
	R1837	NRS463J-333X	MG R	33kΩ 1/16W J
	R1838	NRS463J-101X	MG R	100Ω 1/16W J
	R1839	NRS463J-333X	MG R	33kΩ 1/16W J
	R1840	NRS463J-102X	MG R	1kΩ 1/16W J
	R1843	NRS463J-103X	MG R	10kΩ 1/16W J
	R1844	NRS463J-103X	MG R	10kΩ 1/16W J
	R1847	NRS463J-101X	MG R	100Ω 1/16W J
	R1850	NRS463J-0R0X	MG R	0.0Ω 1/16W J
	R1880	NRS463J-102X	MG R	1kΩ 1/16W J
	R1881	NRS463J-221X	MG R	220Ω 1/16W J
	R1882	NRS463J-222X	MG R	2.2kΩ 1/16W J
	R1883	NRS463J-103X	MG R	10kΩ 1/16W J
	R1884	NRS463J-102X	MG R	1kΩ 1/16W J
	R1887	NRS463J-221X	MG R	220Ω 1/16W J
	R1888	NRS463J-222X	MG R	2.2kΩ 1/16W J
	R1889	NRS463J-103X	MG R	10kΩ 1/16W J
	R1891	NRS463J-221X	MG R	220Ω 1/16W J
	R1892	NRS463J-221X	MG R	220Ω 1/16W J
	R1893	NRS463J-221X	MG R	220Ω 1/16W J
	R1894	NRS463J-221X	MG R	220Ω 1/16W J
	R1895	NRS463J-221X	MG R	220Ω 1/16W J
	R1896	NRS463J-563X	MG R	56kΩ 1/16W J
	R1897	NRS463J-563X	MG R	56kΩ 1/16W J
	R1901	NRS463J-471X	MG R	470Ω 1/16W J
	R1902	NRS463J-182X	MG R	1.8kΩ 1/16W J
	R1904	NRS402F-222X	MG R	2.2kΩ 1/10W F

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1905	NRSA02F-222X	MG R	2.2kΩ 1/10W F
R1907	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1908	NRSA63J-183X	MG R	18kΩ 1/16W J
R1931	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R1932	NRSA63J-101X	MG R	100Ω 1/16W J
R1933	NRSA63J-683X	MG R	68kΩ 1/16W J
R1935	QRT09J-8R2	MF R	8.2Ω 3W J
R1936	QRL09J-100	OM R	10Ω 3W J
R1941	QRK126J-5R6X	C R	5.6Ω 1/2W J
R1942	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R1943	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R1944	QRK126J-220X	C R	22Ω 1/2W J
R1945	NRSA63J-102X	MG R	1kΩ 1/16W J
R1946	NRSA63J-102X	MG R	1kΩ 1/16W J
R1947	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R1949	NRSA02F-122X	MG R	1.2kΩ 1/10W F
R1950	NRSA63J-822X	MG R	8.2kΩ 1/16W J
R1952	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1953	NRSA63J-224X	MG R	220kΩ 1/16W J
R1954	NRSA63J-473X	MG R	47kΩ 1/16W J
R1955	NRSA63J-473X	MG R	47kΩ 1/16W J
R1959	NRSA02F-182X	MG R	1.8kΩ 1/10W F
R1961	NRSA63J-821X	MG R	820Ω 1/16W J
R1962	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1963	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R1964	NRSA63J-223X	MG R	22kΩ 1/16W J
R1965	NRSA63J-821X	MG R	820Ω 1/16W J
R1966	NRSA63J-123X	MG R	12kΩ 1/16W J
R1967	NRSA63J-122X	MG R	1.2kΩ 1/16W J
R1968	NRSA63J-821X	MG R	820Ω 1/16W J
R1969	NRSA63J-821X	MG R	820Ω 1/16W J
R1981	QRG01GJ-181	OM R	180Ω 1W J
R1986	QRG01GJ-331	OM R	330Ω 1W J
R1991	NRSA63J-273X	MG R	27kΩ 1/16W J
R1992	NRSA63J-123X	MG R	12kΩ 1/16W J
R1993	NRSA63J-123X	MG R	12kΩ 1/16W J
R1994	NRSA63J-333X	MG R	33kΩ 1/16W J
R1996	NRSA63J-101X	MG R	100Ω 1/16W J
R1997	NRSA63J-101X	MG R	100Ω 1/16W J
R1998	NRSA63J-101X	MG R	100Ω 1/16W J

CAPACITOR			
C1001	QETN0JM-108Z	E CAP.	1000μF 6.3V M
C1002	NCF31AZ-105X	C CAP.	1μF 10V Z
C1003	NCF31AZ-105X	C CAP.	1μF 10V Z
C1011	NDC31HJ-100X	C CAP.	100pF 50V J
C1012	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C1013	NDC31HJ-5R0X	C CAP.	5.0pF 50V J
C1021	NCF11EZ-105X	C CAP.	1μF 25V Z
C1102	QETN1CM-477Z	E CAP.	470μF 16V M
C1103	QETN1HM-106Z	E CAP.	10μF 50V M
C1104	QETN1HM-106Z	E CAP.	10μF 50V M
C1108	QETN1HM-106Z	E CAP.	10μF 50V M
C1131	QETN1EM-476Z	E CAP.	47μF 25V M
C1132	QETN1EM-476Z	E CAP.	47μF 25V M
C1133	QETN1EM-476Z	E CAP.	47μF 25V M
C1134	NCF11EZ-105X	C CAP.	1μF 25V Z
C1135	NCB11CK-105X	C CAP.	1μF 16V K
C1136	NCB11CK-105X	C CAP.	1μF 16V K
C1137	NCB11CK-105X	C CAP.	1μF 16V K
C1138	QRN143J-0R0X	C R	0.0Ω 1/4W J
C1139	QRN143J-0R0X	C R	0.0Ω 1/4W J
C1140	QRN143J-0R0X	C R	0.0Ω 1/4W J
C1148	NCB31EK-104X	C CAP.	0.1μF 25V K
C1149	QETN1CM-107Z	E CAP.	100μF 16V M
C1150	NCF21CZ-105X	C CAP.	1μF 16V Z
C1151	NCF21CZ-105X	C CAP.	1μF 16V Z
C1152	NCF21CZ-105X	C CAP.	1μF 16V Z
C1160	QETN1CM-107Z	E CAP.	100μF 16V M

CAPACITOR			
C1162	NCB31EK-104X	C CAP.	0.1μF 25V K
C1173	NCB11CK-105X	C CAP.	1μF 16V K
C1174	NCB11CK-105X	C CAP.	1μF 16V K
C1175	NCB11CK-105X	C CAP.	1μF 16V K
C1176	NCB31HK-103X	C CAP.	0.01μF 50V K
C1177	NCB31HK-103X	C CAP.	0.01μF 50V K
C1178	NCB31HK-103X	C CAP.	0.01μF 50V K
C1213	QETN1CM-107Z	E CAP.	100μF 16V M
C1214	QETN1HM-225Z	E CAP.	2.2μF 50V M
C1215	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
C1216	NCF11CZ-475X	C CAP.	4.7μF 16V Z
C1218	QENCLHM-105Z	E CAP.	1μF 50V M
C1219	NCF11CZ-475X	C CAP.	4.7μF 16V Z
C1233	NDC31HJ-180X	C CAP.	180pF 50V J
C1241	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C1242	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C1243	QETN1CM-476Z	E CAP.	47μF 16V M
C1244	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C1245	QETN1CM-476Z	E CAP.	47μF 16V M
C1250	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C1251	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C1252	QENCLHM-106Z	BP E CAP.	10μF 25V M
C1253	NCB31HK-103X	C CAP.	0.01μF 50V K
C1254	QETN1CM-227Z	E CAP.	220μF 16V M
C1255	QETN1HM-474Z	E CAP.	0.47μF 50V M
C1256	NCB11CK-105X	C CAP.	1μF 16V K
C1259	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C1260	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C1261	NDC31HJ-150X	C CAP.	150pF 50V J
C1262	NDC31HJ-471X	C CAP.	470pF 50V J
C1263	NCB31HK-103X	C CAP.	0.01μF 50V K
C1264	NDC31HJ-101X	C CAP.	100pF 50V J
C1265	NDC31HJ-101X	C CAP.	100pF 50V J
C1266	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C1269	QETN1HM-475Z	E CAP.	4.7μF 50V M
C1270	QETN1HM-474Z	E CAP.	0.47μF 50V M
C1271	QETN1HM-474Z	E CAP.	0.47μF 50V M
C1272	QETN1HM-105Z	E CAP.	1μF 50V M
C1273	NCB31HK-472X	C CAP.	4700pF 50V K
C1275	QETN1HM-105Z	E CAP.	1μF 50V M
C1276	QETN1CM-227Z	E CAP.	220μF 16V M
C1277	NCB31HK-103X	C CAP.	0.01μF 50V K
C1278	NCB31HK-103X	C CAP.	0.01μF 50V K
C1301	QENCLHM-105Z	E CAP.	1μF 50V M
C1302	QENCLHM-105Z	E CAP.	1μF 50V M
C1303	QENCLHM-105Z	E CAP.	1μF 50V M
C1304	QETN1HM-105Z	E CAP.	1μF 50V M
C1305	NCF11CZ-475X	C CAP.	4.7μF 16V Z
C1306	QETN1AM-477Z	E CAP.	470μF 10V M
C1307	NCB31HK-472X	C CAP.	4700pF 50V K
C1308	NCB31CK-104X	C CAP.	0.1μF 16V K
C1309	NCB31CK-104X	C CAP.	0.1μF 16V K
C1310	NCB31CK-104X	C CAP.	0.1μF 16V K
C1311	NCB31CK-104X	C CAP.	0.1μF 16V K
C1312	NCB31CK-104X	C CAP.	0.1μF 16V K
C1313	NCB31CK-104X	C CAP.	0.1μF 16V K
C1315	NCB31HK-472X	C CAP.	4700pF 50V K
C1316	NCB31HK-472X	C CAP.	4700pF 50V K
C1317	QETN1CM-227Z	E CAP.	220μF 16V M
C1318	QETN1HM-225Z	E CAP.	2.2μF 50V M
C1319	QETN1HM-105Z	E CAP.	1μF 50V M
C1320	QETN1HM-475Z	E CAP.	4.7μF 50V M
C1321	QETN1HM-335Z	E CAP.	3.3μF 50V M
C1322	QETN1HM-335Z	E CAP.	3.3μF 50V M
C1323	QETN1HM-335Z	E CAP.	3.3μF 50V M
C1325	NCB11CK-105X	C CAP.	1μF 16V K
C1326	NCB11CK-105X	C CAP.	1μF 16V K
C1327	NCB11CK-105X	C CAP.	1μF 16V K
C1329	NCB31HK-103X	C CAP.	0.01μF 50V K
C1332	NCB21AK-105X	C CAP.	1μF 10V K
C1333	NCB21AK-105X	C CAP.	1μF 10V K
C1334	NCB21AK-105X	C CAP.	1μF 10V K
C1335	QETN1EM-476Z	E CAP.	47μF 25V M
C1336	NCB31HK-472X	C CAP.	4700pF 50V K

△ Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C1339	NCF11CZ-475X	C CAP.	4.7μF 16V Z
C1341	NCF11EZ-105X	C CAP.	1μF 25V Z
C1342	NCF11EZ-105X	C CAP.	1μF 25V Z
C1343	NCF11EZ-105X	C CAP.	1μF 25V Z
C1344	NCF11EZ-105X	C CAP.	1μF 25V Z
C1345	NCF11EZ-105X	C CAP.	1μF 25V Z
C1346	NCF11EZ-105X	C CAP.	1μF 25V Z
C1351	NCF31AZ-105X	C CAP.	1μF 10V Z
C1352	NDC31HJ-151X	C CAP.	150pF 50V J
C1357	NCB31HK-102X	C CAP.	1000pF 50V K
C1358	NDC31HJ-100X	C CAP.	10pF 50V J
C1359	NCB31HK-472X	C CAP.	4700pF 50V K
C1361	QETNLM-226Z	E CAP.	22μF 50V M
C1362	NCB31CK-563X	C CAP.	0.056μF 16V K
C1363	QETNLM-226Z	E CAP.	22μF 50V M
C1364	NCB31CK-104X	C CAP.	0.1μF 16V K
C1366	NCF11EZ-105X	C CAP.	1μF 25V Z
C1386	NCF31AZ-105X	C CAP.	1μF 10V Z
C1391	NCF31AZ-105X	C CAP.	1μF 10V Z
C1401	QETNLM-477Z	E CAP.	470μF 10V M
C1402	QETNOJM-108Z	E CAP.	1000μF 6.3V M
C1403	QETNLM-107Z	E CAP.	100μF 16V M
C1404	QETNLM-108Z	E CAP.	1000μF 10V M
C1405	QETNOJM-108Z	E CAP.	1000μF 6.3V M
C1409	QETNLM-106Z	E CAP.	10μF 50V M
C1410	NCB31CK-104X	C CAP.	0.1μF 16V K
C1411	NCB31CK-104X	C CAP.	0.1μF 16V K
C1413	NCB31HK-103X	C CAP.	0.01μF 50V K
C1414	QETNLEM-476Z	E CAP.	47μF 25V M
C1415	NCB31HK-103X	C CAP.	0.01μF 50V K
C1416	QETNLEM-476Z	E CAP.	47μF 25V M
C1417	NCB31HK-103X	C CAP.	0.01μF 50V K
C1418	QETNLEM-476Z	E CAP.	47μF 25V M
C1424	QETNLM-336Z	E CAP.	33μF 16V M
C1425	QETNLM-336Z	E CAP.	33μF 16V M
C1426	QETNLM-336Z	E CAP.	33μF 16V M
C1428	QRN143J-OROX	C R	0.00 1/4W J
C1429	QRN143J-OROX	C R	0.00 1/4W J
C1438	NCB31HK-103X	C CAP.	0.01μF 50V K
C1442	NCB31HK-103X	C CAP.	0.01μF 50V K
C1444	NCB11CK-225X	C CAP.	2.2μF 16V K
C1445	NCB31HK-103X	C CAP.	0.01μF 50V K
C1446	NCB31HK-102X	C CAP.	1000pF 50V K
C1447	NDC31HJ-151X	C CAP.	150pF 50V J
C1449	NDC31HJ-560X	C CAP.	56pF 50V J
C1450	NCB31HK-103X	C CAP.	0.01μF 50V K
C1451	NCB31HK-103X	C CAP.	0.01μF 50V K
C1452	NCB31HK-102X	C CAP.	1000pF 50V K
C1453	NCB31AK-474X	C CAP.	0.47μF 10V K
C1454	NCB11CK-225X	C CAP.	2.2μF 16V K
C1480	NCB31HK-103X	C CAP.	0.01μF 50V K
C1481	NCB31HK-103X	C CAP.	0.01μF 50V K
C1482	NCB11CK-225X	C CAP.	2.2μF 16V K
C1483	NCB31HK-103X	C CAP.	0.01μF 50V K
C1484	NCB31HK-103X	C CAP.	0.01μF 50V K
C1485	NCB31HK-102X	C CAP.	1000pF 50V K
C1486	NDC31HJ-151X	C CAP.	150pF 50V J
C1487	NCB31HK-102X	C CAP.	1000pF 50V K
C1488	NDC31HJ-780X	C CAP.	7.0pF 50V J
C1489	NDC31HJ-560X	C CAP.	56pF 50V J
C1490	NCB31HK-103X	C CAP.	0.01μF 50V K
C1491	NCB11CK-225X	C CAP.	2.2μF 16V K
C1501	NCB31EK-104X	C CAP.	0.1μF 25V K
C1502	QETNLEM-476Z	E CAP.	47μF 25V M
C1519	QETNLEM-476Z	E CAP.	47μF 25V M
C1520	NDC31HJ-100X	C CAP.	10pF 50V J
C1521	QENCLCM-336Z	E CAP.	33μF 16V M
C1522	NCB31HK-103X	C CAP.	0.01μF 50V K
C1532	QETNLM-226Z	E CAP.	22μF 50V M
C1539	QETNLM-106Z	E CAP.	10μF 50V M
C1560	NCF11EZ-105X	C CAP.	1μF 25V Z
C1579	QETNLEM-476Z	E CAP.	47μF 25V M
C1582	QENCLCM-336Z	E CAP.	33μF 16V M
C1583	NCB11CK-225X	C CAP.	2.2μF 16V K
C1663	NRS463J-OROX	MG R	0.00 1/16W J
C1665	NRS463J-OROX	MG R	0.00 1/16W J

△ Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C1667	QETNLM-106Z	E CAP.	10μF 50V M
C1668	NDC31HJ-101X	C CAP.	100pF 50V J
C1669	NCB11CK-105X	C CAP.	1μF 16V K
C1670	QETNLM-106Z	E CAP.	10μF 50V M
C1671	NDC31HJ-101X	C CAP.	100pF 50V J
C1672	NCB11CK-105X	C CAP.	1μF 16V K
C1673	QETNLM-107Z	E CAP.	100μF 50V M
C1674	QETNLM-228	E CAP.	2200μF 35V M
C1675	QFV71HJ-124Z	MF CAP.	0.12μF 50V J
C1676	QFV71HJ-124Z	MF CAP.	0.12μF 50V J
C1677	QETNLEM-108Z	E CAP.	1000μF 25V M
C1678	QETNLEM-108Z	E CAP.	1000μF 25V M
C1679	QETNLM-475Z	E CAP.	4.7μF 50V M
C1680	QETNLM-106Z	E CAP.	10μF 50V M
C1696	QETNLM-106Z	E CAP.	10μF 50V M
C1697	QETNLEM-476Z	E CAP.	47μF 25V M
C1701	NCB31EK-104X	C CAP.	0.1μF 25V K
C1702	NCB11CK-225X	C CAP.	2.2μF 16V K
C1703	QETNLEM-476Z	E CAP.	47μF 25V M
C1704	NCB11CK-225X	C CAP.	2.2μF 16V K
C1706	NCB11CK-105X	C CAP.	1μF 16V K
C1708	NDC31HJ-470X	C CAP.	47pF 50V J
C1709	NDC31HJ-101X	C CAP.	100pF 50V J
C1710	NCB31EK-104X	C CAP.	0.1μF 25V K
C1711	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C1712	QETNLM-106Z	E CAP.	10μF 50V M
C1715	NDC31HJ-102X	C CAP.	1000pF 50V J
C1716	NCB31HK-103X	C CAP.	0.01μF 50V K
C1717	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C1718	QETNLEM-476Z	E CAP.	47μF 25V M
C1719	QETNLM-475Z	E CAP.	4.7μF 50V M
C1720	NDC31HJ-102X	C CAP.	1000pF 50V J
C1721	NCB31HK-103X	C CAP.	0.01μF 50V K
C1722	QETNLM-475Z	E CAP.	4.7μF 50V M
C1723	NCB31HK-152X	C CAP.	1500pF 50V K
C1724	QETNLM-105Z	E CAP.	1μF 50V M
C1725	NDC31HJ-470X	C CAP.	47pF 50V J
C1726	QETNLM-105Z	E CAP.	1μF 50V M
C1727	QETNLM-105Z	E CAP.	1μF 50V M
C1728	NCB21AK-105X	C CAP.	1μF 10V K
C1729	QETNLEM-476Z	E CAP.	47μF 25V M
C1730	QETNLM-105Z	E CAP.	1μF 50V M
C1731	QETNLM-105Z	E CAP.	1μF 50V M
C1732	NCB31HK-103X	C CAP.	0.01μF 50V K
C1733	QETNLM-475Z	E CAP.	4.7μF 50V M
C1734	NDC31HJ-470X	C CAP.	47pF 50V J
C1735	NCB31HK-153X	C CAP.	0.015μF 50V K
C1743	NDC31HJ-880X	C CAP.	8.0pF 50V J
C1744	NDC31HJ-880X	C CAP.	8.0pF 50V J
C1745	NCB31HK-153X	C CAP.	0.015μF 50V K
C1752	NCB11CK-105X	C CAP.	1μF 16V K
C1754	NCB31HK-122X	C CAP.	1200pF 50V K
C1755	QETNLM-105Z	E CAP.	1μF 50V M
C1756	NCB31HK-122X	C CAP.	1200pF 50V K
C1757	QETNLM-105Z	E CAP.	1μF 50V M
C1801	NDC31HJ-391X	C CAP.	390pF 50V J
C1802	QETNLM-106Z	E CAP.	10μF 50V M
C1901	QETNLEM-107Z	E CAP.	100μF 25V M
C1902	QETNLM-107Z	E CAP.	100μF 16V M
C1908	QETNLM-107Z	E CAP.	100μF 16V M
C1909	QETNLM-107Z	E CAP.	100μF 16V M
C1932	QETNLEM-476Z	E CAP.	47μF 25V M
C1941	QETNLM-108Z	E CAP.	1000μF 35V M
C1942	QETNLM-108Z	E CAP.	1000μF 16V M
C1944	QETNLM-108Z	E CAP.	1000μF 35V M
C1945	QEZ0256-128	E CAP.	1200μF 10V M
C1947	QETNLM-477Z	E CAP.	470μF 16V M
C1948	QETNLM-477Z	E CAP.	470μF 16V M
C1949	QETNOJM-108Z	E CAP.	1000μF 6.3V M
C1950	QETNOJM-108Z	E CAP.	1000μF 6.3V M
C1951	QETNLM-108Z	E CAP.	1000μF 35V M
C1952	QEZ0256-128	E CAP.	1200μF 10V M
C1953	QETNOJM-108Z	E CAP.	1000μF 6.3V M
C1954	QETNOJM-108Z	E CAP.	1000μF 6.3V M
C1957	QETNOJM-108Z	E CAP.	1000μF 6.3V M
C1958	QETNOJM-228Z	E CAP.	2200μF 6.3V M

Symbol	No.	Part No.	Part Name	Description
CAPACITOR				
C1961		QETNLHM-105Z	E CAP.	1 μ F 50V M
C1988		NCB31HK-222X	C CAP.	220 μ F 50V K
COIL				
L1101		QRN143J-0R0X	C R	0.0 Ω 1/4W J
L1102		QRN143J-0R0X	C R	0.0 Ω 1/4W J
L1211		QQL25CK-100Z	COIL	1 μ H K
L1243		NQL024J-100X	COIL	10 μ H
L1244		NQL024J-100X	COIL	10 μ H
L1401		QQL25CK-100Z	COIL	1 μ H K
L1402		QQL26AK-100Z	CHOKE COIL	
L1403		QRN143J-0R0X	C R	0.0 Ω 1/4W J
L1404		QRN143J-0R0X	C R	0.0 Ω 1/4W J
L1430		NQL085J-560X	INDUCTOR	
L1431		NQL085J-560X	INDUCTOR	
L1481		NQL085J-560X	INDUCTOR	
L1482		NQL085J-560X	INDUCTOR	
L1711		NQL085J-2R2X	INDUCTOR	
L1712		NQL085J-3R3X	INDUCTOR	
L1713		NQL085J-3R3X	INDUCTOR	
L1714		NQL085J-3R3X	INDUCTOR	
L1941		QQR1129-001	CHOKE COIL	
L1942		QQR1127-001	CHOKE COIL	
L1943		QQL50AK-330Z	CHOKE COIL	
L1944		QQL26AK-330Z	COIL	33 μ H K
L1945		QQL26AK-220Z	COIL	22 μ H K
L1946		QQL26AK-220Z	COIL	22 μ H K
L1947		QQR1127-001	CHOKE COIL	
L1948		QQL50AK-100Z	CHOKE COIL	
L1949		QQL26AK-220Z	COIL	22 μ H K
L1950		QQL26AK-820Z	COIL	82 μ H K
DIODE				
D1301		MA111-X	SI. DIODE	
D1302		MA111-X	SI. DIODE	
D1304		MA111-X	SI. DIODE	
D1305		MA111-X	SI. DIODE	
D1306		MA111-X	SI. DIODE	
D1308		MA8100/M/-X	ZENER DIODE	
D1352		MA111-X	SI. DIODE	
D1353		MA8150/M/-X	ZENER DIODE	
D1354		MA8030/H/-X	ZENER DIODE	
D1431		MA111-X	SI. DIODE	
D1432		MA111-X	SI. DIODE	
D1481		MA111-X	SI. DIODE	
D1482		MA111-X	SI. DIODE	
D1662		MA3330/L/-X	ZENER DIODE	
D1663		MA3330/L/-X	ZENER DIODE	
D1667		MA111-X	SI. DIODE	
D1668		MA111-X	SI. DIODE	
D1669		MA111-X	SI. DIODE	
D1701		1SR35-400A-T2	DIODE	
D1702		MA111-X	SI. DIODE	
D1704		MA111-X	SI. DIODE	
D1708		MA111-X	SI. DIODE	
D1709		MA111-X	SI. DIODE	
D1710		MA111-X	SI. DIODE	
D1711		MA111-X	SI. DIODE	
D1713		MA111-X	SI. DIODE	
D1714		MA111-X	SI. DIODE	
D1715		MA111-X	SI. DIODE	
D1716		MA111-X	SI. DIODE	
D1718		MA111-X	SI. DIODE	
D1719		NRS463J-0R0X	MG R	0.0 Ω 1/16W J
D1721		MA704A-X	S B DIODE	
D1722		MA704A-X	S B DIODE	
D1891		UDZ58.2B-X	ZENER DIODE	
D1892		UDZ58.2B-X	ZENER DIODE	
D1893		UDZ55.1B-X	ZENER DIODE	
D1894		UDZ55.1B-X	ZENER DIODE	
D1895		UDZ55.1B-X	ZENER DIODE	
D1901		1SR35-400A-T2	DIODE	
D1903		1SR35-400A-T2	DIODE	
D1931		MA111-X	SI. DIODE	
D1932		MA111-X	SI. DIODE	

Symbol	No.	Part No.	Part Name	Description
DIODE				
D1933		UDZ55.1B-X	ZENER DIODE	
D1941		RK34-LFC4	S B DIODE	
D1942		SF554	S B DIODE	
D1943		SF554	S B DIODE	
D1962		MA3030/H/-X	ZENER DIODE	
D1964		MA111-X	SI. DIODE	
D1965		MA111-X	SI. DIODE	
D1967		PTZ11B-X	ZENER DIODE	
D1968		PTZ6.8B-X	ZENER DIODE	
D1969		PTZ11B-X	ZENER DIODE	
D1970		MA111-X	SI. DIODE	
TRANSISTOR				
Q1001		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1021		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1151		2SC3837K/NP/-X	SI. TRANSISTOR	
Q1152		2SC3837K/NP/-X	SI. TRANSISTOR	
Q1153		2SC3837K/NP/-X	SI. TRANSISTOR	
Q1232		2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1242		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1243		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1246		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1248		2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1249		2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1301		2SA1022/BC/-X	SI. TRANSISTOR	
Q1302		2SA1022/BC/-X	SI. TRANSISTOR	
Q1303		2SA1022/BC/-X	SI. TRANSISTOR	
Q1304		2SC3837K/NP/-X	SI. TRANSISTOR	
Q1305		2SC3837K/NP/-X	SI. TRANSISTOR	
Q1306		2SC3837K/NP/-X	SI. TRANSISTOR	
Q1321		1MX1-XW	TRANSISTOR	
Q1323		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1324		2SA1022/BC/-X	SI. TRANSISTOR	
Q1431		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1432		2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1433		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1436		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1437		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1438		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1439		2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1481		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1482		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1483		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1484		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1485		2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1505		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1668		DTC144EKA-X	SI. TRANSISTOR	
Q1669		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1672		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1673		2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1701		DTC144EKA-X	SI. TRANSISTOR	
Q1702		2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1703		2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1704		2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1705		2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1706		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1707		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1710		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1711		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1714		2SC2785/JH/-T	SI. TRANSISTOR	
Q1715		2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1931		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1961		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1962		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1964		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1965		2SC2412K/QR/-X	SI. TRANSISTOR	
Q1981		2SC4682-T	TRANSISTOR	
Q1984		2SC4682-T	TRANSISTOR	
IC				
IC1001		TC74HC02AF-X	I. C.	
IC1002		TC74HC14AF-X	I. C.	
IC1011		TC7404F-X	I. C.	
IC1021		TC4666F-X	I. C.	
IC1131		MS2055FP-X	I. C.	
IC1151		MM1519XQ	I. C.	

Symbol No.	Part No.	Part Name	Description
IC			
IC1211	TA1318N	I.C.	
IC1212	TC7W08F-X	I.C.	
IC1241	CXA2019AQ	I.C.	
IC1242	TA78L09F-X	I.C.	
IC1301	AN5392FBQ	I.C.	
IC1302	CXA1875AM-X	I.C.	
IC1351	TC74HC4538AF-X	I.C.	
IC1431	TC4W66F-X	I.C.	
IC1501	CXA2069Q	I.C.	
IC1502	M62320FP-X	I.C.	
IC1511	PQ15RW11	I.C.	
IC1521	CE42599-002	COMB FILTER	
IC1560	BU208F-X	I.C.	
IC1661	AN5277	I.C.	
IC1701	MN102H57KPB	I.C.	
IC1702	S-80828CLNB-W	I.C.	
IC1703	AT24C32-48WP30	I.C.	(SERVICE)
IC1704	TA48M033F-X	I.C.	
IC1901	PQ12RF1	I.C.	
IC1903	BA1780ST	I.C.	
IC1903	AN7805F	I.C.	
IC1941	SI-8090S	I.C.	
IC1942	SI-8050S	I.C.	
IC1943	PQ1G2032FZ	I.C.	
IC1944	PQ070XH02Z-W	I.C.	
OTHERS			
CF1241	QAX0529-001	C RESONATOR	
CN1001	QGB1506L1-16	B TO B CONNECTOR	
CN1002	QGB1506L1-16	B TO B CONNECTOR	
CN1003	QGB1506L1-16	B TO B CONNECTOR	
CN1004	QGC2507C1-96	CARD EDGE	
CN1005	QGB1505J1-40	B TO B CONNECTOR	
CN1006	QGB1505J1-40	B TO B CONNECTOR	
CN1007	QGB1505J1-25	B TO B CONNECTOR	
CN1010	QGB1505J1-40	B TO B CONNECTOR	
K1151	NRS463J-OROX	MG R	0.002 1/16W J
K1703	NQR0199-004X	FERRITE BEADS	
K1704	NQR0413-003X	BEADS CORE	
K1705	NQR0413-003X	BEADS CORE	
K1943	CE42050-001Z	BEADS CORE	
K1944	CE42050-001Z	BEADS CORE	
LC1131	NQR0169-001X	EMI FILTER	
SL1211	CSB903F30-T2	C RESONATOR	
SL1701	QAX0248-001Z	C RESONATOR	
TU1101	QAU0206-001	TUNER	
X1241	CE41651-001Z	X-TAL	

POWER & DEF. P.W. BOARD ASS'Y

(SSB-2053A-M2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R2201	QRA14CF-1803Y	MF R	180KΩ 1/4W F
R2202	QRA14CF-2703Y	MF R	270KΩ 1/4W F
R2208	QRA14CF-2703Y	MF R	270KΩ 1/4W F
R2401	QRE141J-562Y	C R	5.6KΩ 1/4W J
R2402	QRE141J-103Y	C R	10KΩ 1/4W J
R2408	QRE121J-180Y	C R	18Ω 1/2W J
R2404	QRA14CF-6801Y	MF R	6.8KΩ 1/4W F
R2405	QRA14CF-6801Y	MF R	6.8KΩ 1/4W F
R2406	QRA14CF-1002Y	MF R	10KΩ 1/4W F
R2407	QRA14CF-8200Y	MF R	820Ω 1/4W F
R2408	QRA14CF-8200Y	MF R	820Ω 1/4W F
R2409	QRL029J-221	OM R	220Ω 2W J
R2410	QRT029J-2R2	MF R	2.2Ω 2W J
R2411	QRE121J-8R2Y	C R	8.2Ω 1/2W J
R2412	QRE141J-472Y	C R	4.7KΩ 1/4W J
R2413	QRE141J-104Y	C R	100KΩ 1/4W J
R2415	QRE141J-154Y	C R	150KΩ 1/4W J
R2416	QRE141J-103Y	C R	10KΩ 1/4W J
R2418	QRE141J-222Y	C R	2.2KΩ 1/4W J
R2420	QRE141J-101Y	C R	100Ω 1/4W J
R2421	QRE141J-682Y	C R	6.8KΩ 1/4W J
R2430	QRE121J-101Y	C R	100Ω 1/2W J
R2431	QRE121J-101Y	C R	100Ω 1/2W J
R2432	QRE121J-101Y	C R	100Ω 1/2W J
R2501	QRE141J-471Y	C R	470Ω 1/4W J
R2502	QRE121J-123Y	C R	12KΩ 1/2W J
R2508	QRE121J-152Y	C R	1.5KΩ 1/2W J
R2504	QRL089J-272	OM R	2.7KΩ 3W J
R2505	QRL089J-332	OM R	3.3KΩ 3W J
R2506	QRE121J-5R6Y	C R	5.6Ω 1/2W J
R2512	QRL029J-331	OM R	330Ω 2W J
R2521	QRE141J-103Y	C R	10KΩ 1/4W J
R2522	QRE141J-103Y	C R	10KΩ 1/4W J
R2523	QRE141J-822Y	C R	8.2KΩ 1/4W J
R2524	QRE141J-682Y	C R	6.8KΩ 1/4W J
R2525	QRE141J-102Y	C R	1KΩ 1/4W J
R2526	QRE141J-470Y	C R	470Ω 1/4W J
R2531	QRL029J-102	OM R	1KΩ 2W J
R2532	QRL029J-820	OM R	820Ω 2W J
R2533	QRL029J-820	OM R	820Ω 2W J
R2534	QRE141J-102Y	C R	1KΩ 1/4W J
R2535	QRE141J-470Y	C R	470Ω 1/4W J
R2536	QRE141J-470Y	C R	470Ω 1/4W J
R2561	QRA14CF-4701Y	MF R	4.7KΩ 1/4W F
R2562	QRA14CF-5601Y	MF R	5.6KΩ 1/4W F
R2565	QRE141J-223Y	C R	22KΩ 1/4W J
R2591	QRF154K-3R3	UNF R	3.3Ω 15W K
R2701	QRL01EJ-220X	OM R	22Ω 1W J
R2702	QRE121J-123Y	C R	12KΩ 1/2W J
R2708	QRZ0056-103Z	COMP R	10KΩ 1/2W K
R2901	QRF154K-R51	UNF R	0.51Ω 15W K
R2902	QRG01GJ-470	OM R	47Ω 1W J
R2908	QRF154K-R51	UNF R	0.51Ω 15W K
R2910	QRE121J-152Y	C R	1.5KΩ 1/2W J
R2911	QRL029J-183	OM R	18KΩ 2W J
R2912	QRT029J-R18	MF R	0.18Ω 2W J
R2913	QRT029J-R18	MF R	0.18Ω 2W J
R2914	QRK126J-681X	C R	680Ω 1/2W J
R2916	QRT029J-R22	MF R	0.22Ω 2W J
R2917	QRK126J-332X	C R	3.3KΩ 1/2W J
R2918	QRE121J-152Y	C R	1.5KΩ 1/2W J
R2920	QRE121J-684Y	C R	680KΩ 1/2W J
R2941	QRL089J-333	OM R	33KΩ 3W J
R2944	QRE121J-222Y	C R	2.2KΩ 1/2W J
R2951	QRE141J-473Y	C R	47KΩ 1/4W J
R2952	QRE141J-222Y	C R	2.2KΩ 1/4W J
R2953	QRE121J-181Y	C R	180Ω 1/2W J
R2954	QRE121J-221Y	C R	220Ω 1/2W J
R2955	QRT089J-1R0	MF R	1.0Ω 3W J
R2959	QRE121J-121Y	C R	120Ω 1/2W J
R2960	QRE141J-473Y	C R	47KΩ 1/4W J
R2961	QRE141J-103Y	C R	10KΩ 1/4W J
R2962	QRE141J-472Y	C R	4.7KΩ 1/4W J
R2963	QRA14CF-4701Y	MF R	4.7KΩ 1/4W F

Symbol No.	Part No.	Part Name	Description
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RESISTOR

R2964	QRA14CF-4701Y	MF R	4.7kΩ 1/4W F
R2965	QRE141J-153Y	C R	15kΩ 1/4W J
R2966	QRE141J-473Y	C R	47kΩ 1/4W J
R2967	QRE141J-473Y	C R	47kΩ 1/4W J
R2968	QRA14CF-1802Y	MF R	18kΩ 1/4W F
R2972	QRA14CF-1101Y	MF R	1.1kΩ 1/4W F
R2973	QRA14CF-7501Y	MF R	7.5kΩ 1/4W F
R2975	QRE121J-223Y	C R	22kΩ 1/2W J
R2977	QRE141J-473Y	C R	47kΩ 1/4W J
R2978	QRE141J-333Y	C R	33kΩ 1/4W J
Δ R2999	QRZ0111-685	C R	6.8MΩ 1/2W K

CAPACITOR

C2201	QFV71HJ-334Z	MF CAP.	0.33μF 50V J
C2401	QETNLVM-108Z	E CAP.	1000μF 35V M
C2402	QFN31HJ-152Z	M CAP.	1500pF 50V J
C2408	QCS32HJ-180Z	C CAP.	18pF 500V J
C2404	QFLC2AJ-104Z	M CAP.	0.1μF 100V J
C2405	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C2406	QETNLVM-107Z	E CAP.	100μF 35V M
C2407	QETNLHM-105Z	E CAP.	1μF 50V M
C2408	QFLC2AJ-104Z	M CAP.	0.1μF 100V J
C2409	QETNLHM-106Z	E CAP.	10μF 50V M
C2411	QCB31HK-222Z	C CAP.	2200pF 50V K
C2412	QENCLCM-226Z	E CAP.	22μF 16V M
C2413	QENCLCM-226Z	E CAP.	22μF 16V M
C2416	QCB31HK-682Z	C CAP.	6800pF 50V K
C2417	QETNLVM-107Z	E CAP.	100μF 35V M
C2501	QCB32HK-331Z	C CAP.	330pF 500V K
C2502	QFN32DK-103	M CAP.	0.01μF 200V K
C2508	QFV71HJ-224Z	MF CAP.	0.22μF 50V J
Δ C2506	QFZ0122-452	MPP CAP.	4500pF 1.8kVH±3%
Δ C2507	QFZ0122-392	MPP CAP.	3900pF 1.8kVH±3%
C2508	QFP32JJ-153	PP CAP.	0.015μF 630V J
Δ C2509	QFZ0128-154	MPP CAP.	0.15μF 400V±3%
Δ C2510	QFZ0197-154	MPP CAP.	0.15μF 250V J
Δ C2511	QFZ0128-254	MPP CAP.	0.25μF 400V±3%
C2513	QE20414-226	E CAP.	22μF 50V M
C2514	QCS32HJ-561	C CAP.	560pF 500V J
C2521	QCZ0122-681	C CAP.	680pF 2kV K
C2522	QCZ0122-681	C CAP.	680pF 2kV K
C2523	QFN32AJ-682Z	M CAP.	6800pF 100V J
C2524	QCS31HJ-470Z	C CAP.	47pF 50V J
C2525	QCB31HK-682Z	C CAP.	6800pF 50V K
C2527	QETNLEM-476Z	E CAP.	47μF 25V M
C2533	QCS32HJ-561	C CAP.	560pF 500V J
C2534	QFN32DK-222Z	M CAP.	2200pF 200V K
C2536	QFN32DK-222Z	M CAP.	2200pF 200V K
C2562	QETNLHM-475Z	E CAP.	4.7μF 50V M
C2591	QE20203-107	E CAP.	100μF 160V M
C2701	QFLC2AJ-273Z	M CAP.	0.027μF 100V J
C2801	QETNLEM-108Z	E CAP.	1000μF 25V M
C2802	QETNLEM-108Z	E CAP.	1000μF 25V M
C2808	QETNLEM-336	E CAP.	33μF 250V M
C2811	QETNLVM-107Z	E CAP.	100μF 35V M
Δ C2902	QFZ9072-104	MF CAP.	0.1μF FAC250V K
Δ C2904	QCZ9054-102	C CAP.	1000pF FAC250V Z
Δ C2905	QCZ9054-102	C CAP.	1000pF FAC250V Z
Δ C2906	QCZ9054-102	C CAP.	1000pF FAC250V Z
Δ C2907	QE20572-128	E CAP.	1000μF 35V M
Δ C2908	QCZ9054-102	C CAP.	1000pF FAC250V Z
C2912	QCZ0340-332	C CAP.	3300pF 2kV K
C2913	QFLC1HJ-471Z	M CAP.	470pF 50V J
C2914	QETNLHM-227Z	E CAP.	220μF 50V M
C2916	QCS31HJ-331Z	C CAP.	330pF 50V J
C2917	QFN31HJ-182Z	M CAP.	1800pF 50V J
C2918	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C2919	QFP32GJ-103Z	PP CAP.	0.01μF 400V J
C2920	QCZ0115-151Z	C CAP.	150pF 2kV K
C2930	QCS31HJ-181Z	C CAP.	180pF 50V J
C2931	QE20203-227	E CAP.	220μF 160V M
C2932	QETNLEM-228	E CAP.	2200μF 25V M
C2934	QETMLVM-228	E CAP.	2200μF 35V M
C2935	QETMLVM-228	E CAP.	2200μF 35V M

Symbol No.	Part No.	Part Name	Description
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CAPACITOR

C2937	QCZ0840-152	C CAP.	1500pF 2kV K
C2942	QETNLHM-105Z	E CAP.	1μF 50V M
C2943	QETNLHM-477Z	E CAP.	470μF 16V M
C2944	QETNLHM-227Z	E CAP.	220μF 16V M
C2945	QETMLVM-228	E CAP.	2200μF 35V M
C2946	QETNLVM-108Z	E CAP.	1000μF 35V M
C2954	QETNLHM-226Z	E CAP.	22μF 50V M
C2971	QETNLHM-107Z	E CAP.	100μF 16V M
C2972	QETNLEM-476Z	E CAP.	47μF 25V M
C2973	QETNLHM-106Z	E CAP.	10μF 50V M
Δ C2998	QCZ9074-472	C CAP.	4700pF FAC250V M
Δ C2999	QCZ9074-472	C CAP.	4700pF FAC250V M
Δ C2995	QCZ9074-472	C CAP.	4700pF FAC250V M
Δ C2997	QCZ9074-472	C CAP.	4700pF FAC250V M
Δ C2998	QCZ9074-472	C CAP.	4700pF FAC250V M
Δ C2999	QCZ9074-472	C CAP.	4700pF FAC250V M

TRANSF

T2501	QOR1111-001	DRIVE TRANSF.	
Δ T2502	QOH0113-002	FBT	
T2701	QOR1096-001	DEF TRANSF	
Δ T2921	QOS0133-001	SW TRANSF.	

COIL

L2501	QQL2025-180	CHOKE COIL	
L2502	QOR1230-001	CHOKE COIL	
L2504	QOR0815-003	LINEARITY COIL	
L2531	QQL48AJ-222	COIL	2.2mH J
L2701	QQL48AJ-222	COIL	2.2mH J
L2801	QQL2026-140	HEATER CHOKE	
L2931	QQL26AK-470Z	COIL	47μH K
L2933	QQL26AK-470Z	COIL	47μH K
L2934	QQL2018-220	HEATER CHOKE	
L2935	QQL60AK-220	INDUCTOR	
L2936	QQL26AK-220Z	COIL	22μH K

DIODE

D2201	1SR35-400A-T2	DIODE	
D2401	MTZJ75-T2	ZENER DIODE	
D2402	1SR35-400A-T2	DIODE	
D2403	1SS133-T2	SI. DIODE	
D2404	MTZJ9.1B-T2	ZENER DIODE	
D2405	1SS133-T2	SI. DIODE	
D2406	MTZJ6.8C-T2	ZENER DIODE	
D2407	1SR35-400A-T2	DIODE	
D2501	1SS81-T5	SI. DIODE	
D2504	RG2A-LFC4	SI. DIODE	
D2505	V11CA-C1	SI. DIODE	
D2506	FMV-3FU-F1	SI. DIODE	
D2521	MTZJ12C-T2	ZENER DIODE	
D2522	1SS81-T5	SI. DIODE	
D2531	RGP10J-5025-T3	SI. DIODE	
D2561	MTZJ7.5S-T2	ZENER DIODE	
D2562	MTZJ7.5S-T2	ZENER DIODE	
D2583	1SS133-T2	SI. DIODE	
D2801	EU2-T3	SI. DIODE	
D2802	EU2-T3	SI. DIODE	
D2803	RU30A-F1	SI. DIODE	
D2811	1SR124-400A-T2	SI. DIODE	
Δ D2901	RBV-606	BRIDGE DIODE	
D2910	MA700A-T2	S B DIODE	
D2911	RGP10J-5025-T3	SI. DIODE	
D2912	AU01Z-T2	SI. DIODE	
D2913	AU01Z-T2	SI. DIODE	
D2914	1SS133-T2	SI. DIODE	
D2915	SAR01-T2	DIODE	
D2916	1SS133-T2	SI. DIODE	
D2917	MTZJ27B-T2	ZENER DIODE	
D2918	MTZJ5.1B-T2	ZENER DIODE	
D2920	1SS133-T2	SI. DIODE	
D2931	RU4M-F1	SI. DIODE	
D2932	RU30A-F1	SI. DIODE	
D2934	RU4M-F1	SI. DIODE	
D2935	RU3Y-LFC4	SI. DIODE	

Symbol No.	Part No.	Part Name	Description
DIODE			
D2936	FMX-G12S	SI. DIODE	
D2937	EU2-T3	SI. DIODE	
D2938	FMX-G12S	SI. DIODE	
D2941	MTZJ33B-T2	ZENER DIODE	
D2952	MTZJ12C-T2	ZENER DIODE	
D2953	1SS244-T2	SI. DIODE	
D2954	1SS133-T2	SI. DIODE	
D2956	1SS133-T2	SI. DIODE	
D2958	MTZJ6.8C-T2	ZENER DIODE	
D2959	1SS133-T2	SI. DIODE	
D2972	MTZJ15B-T2	ZENER DIODE	
D2973	1SS133-T2	SI. DIODE	
TRANSISTOR			
Q2401	2SC3311A/QR/-T	SI. TRANSISTOR	
Q2402	2SC3311A/QR/-T	SI. TRANSISTOR	
Q2501	BSN304-T	F.E.T.	
Q2503	2SC5552-RL	POWER TRANSISTOR	H. OUT
Q2521	2SC3311A/QR/-T	SI. TRANSISTOR	
Q2531	IRF1620G	F.E.T.	
Q2532	2SC1959/Y/-T	SI. TRANSISTOR	
Q2533	2SA962TM/Y/-T	SI. TRANSISTOR	
Q2951	2SC1627A/Y/-T	SI. TRANSISTOR	
Q2952	2SC3311A/QR/-T	SI. TRANSISTOR	
Q2953	2SC3311A/QR/-T	SI. TRANSISTOR	
Q2954	2SC3311A/QR/-T	SI. TRANSISTOR	
Q2971	2SA1208/ST/Z1-T	SI. TRANSISTOR	
IC			
IC2401	LA7876NZ	I.C.	
IC2911	STR-F6629B/F7	I.C.	
IC2921	SE140N	I.C.	
OTHERS			
CN2001	QGB1506M1-16	B TO B CONNECTOR	
CN2002	QGB1506M1-16	B TO B CONNECTOR	
CN2003	QGB1506M1-16	B TO B CONNECTOR	
CN2010	QGB1505J1-35	B TO B CONNECTOR	
CP2934	ICP-N70-T	I.C. PROTECT	
CP2936	ICP-N38-Y	I.C. PROTECT	
CP2941	ICP-N70-T	I.C. PROTECT	
CP2942	ICP-N70-T	I.C. PROTECT	
CP2943	ICP-N20-Y	I.C. PROTECT	
F2905	QMF2034-5R0Z-J1	FUSE	5.0A
FR2801	QRZ9011-1R0	F R	1.0 Ω 1/2W J
FR2802	QRZ9011-1R0	F R	1.0 Ω 1/2W J
FR2811	QRZ9011-4R7	F R	4.7Ω 1/2W J
FR2915	QRZ9017-330	F R	33 Ω 1/4W J
K2401	QQR0621-002Z	BEADS CORE	
K2504	QQR0679-001	FERRITE BEADS	
K2505	QQR0679-001	FERRITE BEADS	
K2912	QQR0582-001Z	BEADS CORE	
K2914	QQR0582-001Z	BEADS CORE	
K2930	QQR0621-002Z	BEADS CORE	
K2931	QQR0621-002Z	BEADS CORE	
K2935	QQR0621-002Z	BEADS CORE	
K2937	QQR0621-002Z	BEADS CORE	
K2938	QQR0621-002Z	BEADS CORE	
PC2921	PC123F2	PHOTO COUPLER	
RY2951	QSK0118-001	RELAY	
RY2952	QSK0083-001	RELAY	
RY2952	or QSK0084-001	RELAY	

R CRT SOCKET P.W. BOARD ASS'Y (SSB-3153A-M2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R3005	QRE121J-105Y	C R	1MΩ 1/2W J
R3006	QRC121K-102Z	MF R	1kΩ 1/2W K
R3008	QRC121K-152Z	MF R	1.5kΩ 1/2W K
R3101	NRS463J-681X	MG R	680Ω 1/16W J
R3103	NRS463J-821X	MG R	820Ω 1/16W J
R3104	QRL039J-473	OM R	47kΩ 3W J
R3106	NRS463J-0R0X	MG R	0.Ω 1/16W J
R3107	NRS463J-0R0X	MG R	0.Ω 1/16W J
R3108	QRC121K-561Z	MF R	560Ω 1/2W K
R3110	NRS463J-0R0X	MG R	0.Ω 1/16W J
CAPACITOR			
C3002	QETN2EM-106Z	E CAP.	10μF 250V M
C3006	QFZ9027-472	MF CAP.	4700pFAC125V K
C3007	QETN2EM-106Z	E CAP.	10μF 250V M
C3101	QETNL HM-106Z	E CAP.	10μF 50V M
C3102	NCB31HK-103X	C CAP.	0.01μF 50V K
C3103	QETNLEM-476Z	E CAP.	47μF 25V M
C3106	QFK62EK-104Z	MM CAP.	0.1μF 250V K
C3107	NDC31HJ-561X	C CAP.	560pF 50V J
C3108	NDC31HJ-100X	C CAP.	10pF 50V J
COIL			
L3002	QQL26AJ-102Z	COIL	1mH J
DIODE			
D3001	RM2C-LFA1	SI. DIODE	
D3101	EU01N-T2	SI. DIODE	
D3102	1SR124-400A-T2	SI. DIODE	
IC			
IC3101	TDAG111Q	I.C.	
OTHERS			
SG3001	CE42447-501	ARRESTOR	
SK3001	CE42535-001J1	CRT SOCKET	

G CRT SOCKET P.W. BOARD ASS'Y

(SSB-3253A-M2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R3001	NRVA63D-123X	MF R	12kΩ 1/16W D
R3002	NRVA63D-223X	MF R	22kΩ 1/16W D
R3003	NRVA63D-472X	MF R	4.7kΩ 1/16W D
R3005	QRE121J-105Y	C R	1MΩ 1/2W J
R3006	QRC121K-102Z	MF R	1kΩ 1/2W K
R3008	QRC121K-152Z	MF R	1.5kΩ 1/2W K
R3013	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R3014	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R3101	NRSA63J-681X	MG R	680Ω 1/16W J
R3102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R3103	NRSA63J-821X	MG R	820Ω 1/16W J
R3104	QRL039J-473	OM R	47kΩ 3W J
R3105	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R3107	NRSA63J-103X	MG R	10kΩ 1/16W J
R3108	QRC121K-561Z	MF R	560Ω 1/2W K
R3110	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
CAPACITOR			
△ C3001	QETN2EM-106Z	E CAP.	10μF 250V M
C3002	QETN2EM-106Z	E CAP.	10μF 250V M
C3003	QFLCL1HJ-223Z	M CAP.	0.022μF 50V J
C3006	QFZ9027-472	MF CAP.	4700pFAC125V K
C3007	QETN2EM-106Z	E CAP.	10μF 250V M
C3101	QETN1HM-106Z	E CAP.	10μF 50V M
C3102	NCB31HK-103X	C CAP.	0.01μF 50V K
C3103	QETN1EM-476Z	E CAP.	47μF 25V M
C3105	NDC31HJ-120X	C CAP.	12pF 50V J
C3106	QFK62EK-104Z	MM CAP.	0.1μF 250V K
C3107	NDC31HJ-561X	C CAP.	560pF 50V J
C3108	NDC31HJ-100X	C CAP.	10pF 50V J
COIL			
L3001	QQL26AJ-102Z	COIL	1mH J
L3002	QQL26AJ-102Z	COIL	1mH J
L3101	QQL244K-5R6Z	COIL	5.6μH K
DIODE			
D3001	RM2C-LFA1	SI DIODE	
D3101	EU01N-T2	SI DIODE	
D3102	1SR124-400A-T2	SI DIODE	
IC			
IC3101	TDA6111Q	I.C.	
OTHERS			
△ FR3007	QRZ9009-1R5	F R	1.5 Ω 1/2W J
△ SG3001	CE42447-501	ARRESTOR	
△ SK3001	CE42535-001J1	CRT SOCKET	

B CRT SOCKET P.W. BOARD ASS'Y

(SSB-3353A-M2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R3005	QRE121J-105Y	C R	1MΩ 1/2W J
R3006	QRC121K-102Z	MF R	1kΩ 1/2W K
R3008	QRC121K-152Z	MF R	1.5kΩ 1/2W K
R3031	NRVA63D-123X	MF R	12kΩ 1/16W D
R3032	NRVA63D-562X	MF R	5.6kΩ 1/16W D
R3033	NRSA63J-104X	MG R	100kΩ 1/16W J
R3101	NRSA63J-681X	MG R	680Ω 1/16W J
R3102	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R3103	NRSA63J-821X	MG R	820Ω 1/16W J
R3104	QRL039J-473	OM R	47kΩ 3W J
R3105	NRSA63J-681X	MG R	680Ω 1/16W J
R3106	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R3107	NRSA63J-103X	MG R	10kΩ 1/16W J
R3108	QRC121K-561Z	MF R	560Ω 1/2W K
R3110	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
CAPACITOR			
C3002	QETN2EM-106Z	E CAP.	10μF 250V M
C3006	QFZ9027-472	MF CAP.	4700pFAC125V K
C3007	QETN2EM-106Z	E CAP.	10μF 250V M
C3101	QETN1HM-106Z	E CAP.	10μF 50V M
C3102	NCB31HK-103X	C CAP.	0.01μF 50V K
C3103	QETN1EM-476Z	E CAP.	47μF 25V M
C3105	NDC31HJ-270X	C CAP.	27pF 50V J
C3106	QFK62EK-104Z	MM CAP.	0.1μF 250V K
C3107	NDC31HJ-561X	C CAP.	560pF 50V J
C3108	NDC31HJ-100X	C CAP.	10pF 50V J
C3109	NDC31HJ-270X	C CAP.	27pF 50V J
COIL			
L3002	QQL26AJ-102Z	COIL	1mH J
L3101	QQL244K-5R6Z	COIL	5.6μH K
DIODE			
D3001	RM2C-LFA1	SI DIODE	
D3101	EU01N-T2	SI DIODE	
D3102	1SR124-400A-T2	SI DIODE	
D3103	MA111-X	SI DIODE	
TRANSISTOR			
Q3031	2SA1037AK/QR/-X	SI TRANSISTOR	
IC			
IC3101	TDA6111Q	I.C.	
OTHERS			
△ SG3001	CE42447-501	ARRESTOR	
△ SK3001	CE42535-001J1	CRT SOCKET	

CONVERGENCE P.W. BOARD ASS'Y (SSB-5053A-M2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R5801	NRS463J-272X	MG R	2.7kΩ 1/16W J
R5802	NRS463J-272X	MG R	2.7kΩ 1/16W J
R5803	NRS463J-272X	MG R	2.7kΩ 1/16W J
R5804	NRS463J-272X	MG R	2.7kΩ 1/16W J
R5805	NRS463J-272X	MG R	2.7kΩ 1/16W J
R5806	NRS463J-272X	MG R	2.7kΩ 1/16W J
R5807	NRS463J-272X	MG R	2.7kΩ 1/16W J
R5808	NRS463J-272X	MG R	2.7kΩ 1/16W J
R5809	QRE121J-471Y	C R	470Ω 1/2W J
R5810	NRS463J-122X	MG R	1.2kΩ 1/16W J
R5812	NRS463J-102X	MG R	1kΩ 1/16W J
R5813	NRS463J-102X	MG R	1kΩ 1/16W J
R5814	NRS463J-333X	MG R	33kΩ 1/16W J
R5815	NRS463J-473X	MG R	47kΩ 1/16W J
R5818	NRS463J-101X	MG R	100Ω 1/16W J
R5826	NRS463J-473X	MG R	47kΩ 1/16W J
R5827	NRS463J-103X	MG R	10kΩ 1/16W J
R5828	NRS463J-101X	MG R	100Ω 1/16W J
R5829	NRS463J-101X	MG R	100Ω 1/16W J
R5830	NRS463J-101X	MG R	100Ω 1/16W J
R5831	NRS463J-102X	MG R	1kΩ 1/16W J
R5832	NRS463J-102X	MG R	1kΩ 1/16W J
R5833	NRS463J-102X	MG R	1kΩ 1/16W J
R5834	NRS463J-473X	MG R	47kΩ 1/16W J
R5835	NRS463J-473X	MG R	47kΩ 1/16W J
R5836	NRS463J-473X	MG R	47kΩ 1/16W J
R5837	NRS463J-473X	MG R	47kΩ 1/16W J
R5838	NRS463J-473X	MG R	47kΩ 1/16W J
R5839	NRS463J-473X	MG R	47kΩ 1/16W J
R5840	NRS463J-332X	MG R	3.3kΩ 1/16W J
R5842	QRX01GJ-2R2	MF R	2.2Ω 1W J
R5843	QRL029J-221	OM R	220Ω 2W J
R5844	NRS463J-332X	MG R	3.3kΩ 1/16W J
R5846	QRX01GJ-1R5	MF R	1.5Ω 1W J
R5847	QRL029J-151	OM R	150Ω 2W J
R5848	NRS463J-332X	MG R	3.3kΩ 1/16W J
R5850	QRX01GJ-2R2	MF R	2.2Ω 1W J
R5851	QRL029J-221	OM R	220Ω 2W J
R5852	NRS463J-332X	MG R	3.3kΩ 1/16W J
R5854	QRX01GJ-1R5	MF R	1.5Ω 1W J
R5855	QRL029J-151	OM R	150Ω 2W J
R5856	NRS463J-332X	MG R	3.3kΩ 1/16W J
R5858	QRX01GJ-3R3	MF R	3.3Ω 1W J
R5859	QRL029J-221	OM R	220Ω 2W J
R5860	NRS463J-332X	MG R	3.3kΩ 1/16W J
R5862	QRX01GJ-1R8	MF R	1.8Ω 1W J
R5863	QRL029J-151	OM R	150Ω 2W J
R5864	NRS463J-101X	MG R	100Ω 1/16W J
R5899	NRS463J-0R0X	MG R	0.0Ω 1/16W J
C5801	QETN1CM-107Z	E CAP.	100μF 16V M
C5802	QETN1CM-107Z	E CAP.	100μF 16V M
C5803	QETN1CM-107Z	E CAP.	100μF 16V M
C5804	NCB31EK-104X	C CAP.	0.1μF 25V K
C5805	QETN1CM-107Z	E CAP.	100μF 16V M
C5806	NCB31EK-104X	C CAP.	0.1μF 25V K
C5807	QETN1CM-107Z	E CAP.	100μF 16V M
C5808	NCB31EK-104X	C CAP.	0.1μF 25V K
C5809	NCB31EK-104X	C CAP.	0.1μF 25V K
C5810	QETN1CM-107Z	E CAP.	100μF 25V M
C5813	NCB31EK-104X	C CAP.	0.1μF 25V K
C5814	NCB31EK-104X	C CAP.	0.1μF 25V K
C5815	NCB31HK-102X	C CAP.	1000pF 50V K
C5818	NCB31HK-103X	C CAP.	0.01μF 50V K
C5819	NCB31HK-103X	C CAP.	0.01μF 50V K
C5820	NDC31HJ-151X	C CAP.	150pF 50V J
C5821	NDC31HJ-151X	C CAP.	150pF 50V J
C5822	NDC31HJ-151X	C CAP.	150pF 50V J
C5823	NDC31HJ-151X	C CAP.	150pF 50V J
C5824	NDC31HJ-151X	C CAP.	150pF 50V J
C5825	NDC31HJ-151X	C CAP.	150pF 50V J
C5827	QETN1HM-477Z	E CAP.	470μF 50V M
C5828	QETN1HM-477Z	E CAP.	470μF 50V M
C5829	NDC31HJ-151X	C CAP.	150pF 50V J
C5830	NDC31HJ-151X	C CAP.	150pF 50V J
C5831	NDC31HJ-151X	C CAP.	150pF 50V J
C5832	NDC31HJ-151X	C CAP.	150pF 50V J

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C5833	NDC31HJ-151X	C CAP.	150pF 50V J
C5834	NDC31HJ-151X	C CAP.	150pF 50V J
C5838	NCB31EK-104X	C CAP.	0.1μF 25V K
C5843	NCB31HK-103X	C CAP.	0.01μF 50V K
COIL			
L5802	QQL521J-470	INDUCTOR	
DIODE			
D5804	1SR153-400-T2	SI. DIODE	
D5805	1SR153-400-T2	SI. DIODE	
D5816	RD33E/B2/-T2	ZENER DIODE	
D5817	RD33E/B2/-T2	ZENER DIODE	
D5818	RD33E/B2/-T2	ZENER DIODE	
D5819	RD33E/B2/-T2	ZENER DIODE	
D5820	RD33E/B2/-T2	ZENER DIODE	
D5821	RD33E/B2/-T2	ZENER DIODE	
D5822	RD33E/B2/-T2	ZENER DIODE	
D5823	RD33E/B2/-T2	ZENER DIODE	
D5824	RD33E/B2/-T2	ZENER DIODE	
D5825	RD33E/B2/-T2	ZENER DIODE	
D5826	RD33E/B2/-T2	ZENER DIODE	
D5827	RD33E/B2/-T2	ZENER DIODE	
D5839	NRS463J-0R0X	MG R	0.0Ω 1/16W J
D5841	PTZ6.8B-X	ZENER DIODE	
D5842	PTZ6.8B-X	ZENER DIODE	
D5843	PTZ6.8B-X	ZENER DIODE	
TRANSISTOR			
Q5801	2SC3852A	SI TRANSISTOR	
Q5802	2SA673/C/-T	SI TRANSISTOR	
Q5803	2SA673/C/-T	SI TRANSISTOR	
Q5806	2SD601A/QR/-X	SI TRANSISTOR	
Q5807	2SD601A/QR/-X	SI TRANSISTOR	
Q5808	2SD601A/QR/-X	SI TRANSISTOR	
Q5811	2SD601A/QR/-X	SI TRANSISTOR	
IC			
IC5801	BA17805T	I.C.	
IC5803	BA17805T	I.C.	
IC5804	STK392-110	I.C.	
IC5805	STK392-110	I.C.	
OTHERS			
CN5011	QGB2510J1-15	B TO B CONNECTOR	
CN5012	QGB2510J1-09	B TO B CONNECTOR	
K5801	QQR0621-002Z	BEADS CORE	
K5802	QQR0621-002Z	BEADS CORE	
K5803	QQR0621-002Z	BEADS CORE	
K5804	QQR0621-002Z	BEADS CORE	
K5805	QQR0621-002Z	BEADS CORE	
K5806	QQR0621-002Z	BEADS CORE	
K5807	QQR0621-002Z	BEADS CORE	
K5808	QQR0621-002Z	BEADS CORE	
K5809	QQR0621-002Z	BEADS CORE	
K5810	QQR0621-002Z	BEADS CORE	
K5811	QQR0621-002Z	BEADS CORE	
MD5001	QAL0382-003	CONVER MODULE	
S5801	QSW0619-003Z	PUSH SWITCH	

SERVICE SW

R VM P.W. BOARD ASS'Y (SSB-7153A-M2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R7101	NRS463J-101X	MG R	100Ω 1/16W J
R7102	NRS463J-223X	MG R	22kΩ 1/16W J
R7103	NRS463J-332X	MG R	3.3kΩ 1/16W J
R7104	NRS463J-332X	MG R	3.3kΩ 1/16W J
R7105	NRS463J-391X	MG R	390Ω 1/16W J
R7106	NRS463J-471X	MG R	470Ω 1/16W J
R7107	NRS463J-392X	MG R	3.9kΩ 1/16W J
△ R7110	QRJ146J-182X	C R	1.8kΩ 1/4W J
R7111	NRS463J-104X	MG R	100kΩ 1/16W J
R7112	NRS463J-104X	MG R	100kΩ 1/16W J
△ R7113	QRJ146J-182X	C R	1.8kΩ 1/4W J
△ R7114	QRJ146J-470X	UNF C R	47Ω 1/4W J
△ R7115	QRJ146J-470X	UNF C R	47Ω 1/4W J
R7116	QRG01GJ-150	OM R	15Ω 1W J
R7117	NRS463J-104X	MG R	100kΩ 1/16W J
R7118	NRS463J-104X	MG R	100kΩ 1/16W J
R7119	QRG01GJ-180	OM R	18Ω 1W J
R7120	QRL09J-330	OM R	33Ω 3W J
R7121	QRL09J-330	OM R	33Ω 3W J
R7122	QRL09J-330	OM R	33Ω 3W J
R7124	NRS463J-101X	MG R	100Ω 1/16W J

CAPACITOR

C7101	NCB31HK-102X	C CAP.	1000pF 50V K
C7102	QETN1HM-106Z	E CAP.	10μF 50V M
C7103	NCF21HZ-104X	C CAP.	0.1μF 50V Z
C7104	NCB31HK-472X	C CAP.	4700pF 50V K
C7107	QFN32DK-103	M CAP.	0.01μF 200V K
C7108	QFN32DK-103	M CAP.	0.01μF 200V K
C7109	QETN2CM-106Z	E CAP.	10μF 160V M
C7110	QETN2CM-226Z	E CAP.	22μF 160V M
C7111	QETN2CM-226Z	E CAP.	22μF 160V M
C7112	QFN31HJ-222Z	M CAP.	2200pF 50V J
C7113	QFN31HJ-222Z	M CAP.	2200pF 50V J
C7116	QCS32HJ-330Z	C CAP.	33pF 500V J
C7117	QFN32DK-103	M CAP.	0.01μF 200V K
C7118	QFN32DK-103	M CAP.	0.01μF 200V K
C7119	QCB32HK-103	C CAP.	0.01μF 500V K
C7120	QCB32HK-102Z	C CAP.	1000pF 500V K

DIODE

D7101	1SS355-X	SI DIODE
D7102	RH15-T3	SI DIODE
D7103	RH15-T3	SI DIODE

TRANSISTOR

Q7101	2SC1906-T	SI TRANSISTOR
Q7102	2SA1005/MLK/-T	SI TRANSISTOR
Q7103	2SC1959/Y/-T	SI TRANSISTOR
Q7104	2SA562TM/Y/-T	SI TRANSISTOR
Q7105	2SJ403	F.E.T.
Q7106	IRF1620G	F.E.T.

OTHERS

K7101	CE41492-001Z	CHOKE COIL
LC7101	NQR0169-001X	EMI FILTER

G VM P.W. BOARD ASS'Y (SSB-7253A-M2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R7101	NRS463J-101X	MG R	100Ω 1/16W J
R7102	NRS463J-223X	MG R	22kΩ 1/16W J
R7103	NRS463J-332X	MG R	3.3kΩ 1/16W J
R7104	NRS463J-332X	MG R	3.3kΩ 1/16W J
R7105	NRS463J-391X	MG R	390Ω 1/16W J
R7106	NRS463J-471X	MG R	470Ω 1/16W J
R7107	NRS463J-392X	MG R	3.9kΩ 1/16W J
△ R7110	QRJ146J-182X	C R	1.8kΩ 1/4W J
R7111	NRS463J-104X	MG R	100kΩ 1/16W J
R7112	NRS463J-104X	MG R	100kΩ 1/16W J
△ R7113	QRJ146J-182X	C R	1.8kΩ 1/4W J
△ R7114	QRJ146J-470X	UNF C R	47Ω 1/4W J
△ R7115	QRJ146J-470X	UNF C R	47Ω 1/4W J
R7116	QRG01GJ-150	OM R	15Ω 1W J
R7117	NRS463J-104X	MG R	100kΩ 1/16W J
R7118	NRS463J-104X	MG R	100kΩ 1/16W J
R7119	QRG01GJ-180	OM R	18Ω 1W J
R7120	QRL09J-330	OM R	33Ω 3W J
R7121	QRL09J-330	OM R	33Ω 3W J
R7122	QRL09J-330	OM R	33Ω 3W J
R7124	NRS463J-101X	MG R	100Ω 1/16W J

CAPACITOR

C7101	NCB31HK-102X	C CAP.	1000pF 50V K
C7102	QETN1HM-106Z	E CAP.	10μF 50V M
C7103	NCF21HZ-104X	C CAP.	0.1μF 50V Z
C7104	NCB31HK-472X	C CAP.	4700pF 50V K
C7107	QFN32DK-103	M CAP.	0.01μF 200V K
C7108	QFN32DK-103	M CAP.	0.01μF 200V K
C7109	QETN2CM-106Z	E CAP.	10μF 160V M
C7110	QETN2CM-226Z	E CAP.	22μF 160V M
C7111	QETN2CM-226Z	E CAP.	22μF 160V M
C7112	QFN31HJ-222Z	M CAP.	2200pF 50V J
C7113	QFN31HJ-222Z	M CAP.	2200pF 50V J
C7116	QCS32HJ-330Z	C CAP.	33pF 500V J
C7117	QFN32DK-103	M CAP.	0.01μF 200V K
C7118	QFN32DK-103	M CAP.	0.01μF 200V K
C7119	QCB32HK-103	C CAP.	0.01μF 500V K
C7120	QCB32HK-102Z	C CAP.	1000pF 500V K

DIODE

D7101	1SS355-X	SI DIODE
D7102	RH15-T3	SI DIODE
D7103	RH15-T3	SI DIODE

TRANSISTOR

Q7101	2SC1906-T	SI TRANSISTOR
Q7102	2SA1005/MLK/-T	SI TRANSISTOR
Q7103	2SC1959/Y/-T	SI TRANSISTOR
Q7104	2SA562TM/Y/-T	SI TRANSISTOR
Q7105	2SJ403	F.E.T.
Q7106	IRF1620G	F.E.T.

OTHERS

K7101	CE41492-001Z	CHOKE COIL
LC7101	NQR0169-001X	EMI FILTER

B VM P.W. BOARD ASS'Y (SSB-7353A-M2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R7101	NRS463J-101X	MG R	100Ω 1/16W J
R7102	NRS463J-223X	MG R	22kΩ 1/16W J
R7103	NRS463J-332X	MG R	3.3kΩ 1/16W J
R7104	NRS463J-332X	MG R	3.3kΩ 1/16W J
R7105	NRS463J-391X	MG R	390Ω 1/16W J
R7106	NRS463J-471X	MG R	470Ω 1/16W J
R7107	NRS463J-392X	MG R	3.9kΩ 1/16W J
Δ R7110	QRJ146J-182X	C R	1.8kΩ 1/4W J
R7111	NRS463J-104X	MG R	100kΩ 1/16W J
R7112	NRS463J-104X	MG R	100kΩ 1/16W J
Δ R7113	QRJ146J-182X	C R	1.8kΩ 1/4W J
Δ R7114	QRJ146J-470X	UNF C R	47Ω 1/4W J
Δ R7115	QRJ146J-470X	UNF C R	47Ω 1/4W J
R7116	QRG01GJ-150	OM R	15Ω 1W J
R7117	NRS463J-104X	MG R	100kΩ 1/16W J
R7118	NRS463J-104X	MG R	100kΩ 1/16W J
R7119	QRG01GJ-180	OM R	18Ω 1W J
R7120	QRL089J-330	OM R	33Ω 3W J
R7121	QRL089J-330	OM R	33Ω 3W J
R7122	QRL089J-330	OM R	33Ω 3W J
R7124	NRS463J-101X	MG R	100Ω 1/16W J
CAPACITOR			
C7101	NCB31HK-102X	C CAP.	1000pF 50V K
C7102	QETN1HM-106Z	E CAP.	10μF 50V M
C7103	NCF21HZ-104X	C CAP.	0.1μF 50V Z
C7104	NCB31HK-472X	C CAP.	4700pF 50V K
C7107	QFN32DK-103	M CAP.	0.01μF 200V K
C7108	QFN32DK-103	M CAP.	0.01μF 200V K
C7109	QETN2CM-106Z	E CAP.	10μF 160V M
C7110	QETN2CM-226Z	E CAP.	22μF 160V M
C7111	QETN2CM-226Z	E CAP.	22μF 160V M
C7112	QFN31HJ-222Z	M CAP.	2200pF 50V J
C7113	QFN31HJ-222Z	M CAP.	2200pF 50V J
C7116	QCS32HJ-330Z	C CAP.	33pF 500V J
C7117	QFN32DK-103	M CAP.	0.01μF 200V K
C7118	QFN32DK-103	M CAP.	0.01μF 200V K
C7119	QCB32HK-103	C CAP.	0.01μF 500V K
C7120	QCB32HK-102Z	C CAP.	1000pF 500V K
DIODE			
D7101	1SS355-X	SI DIODE	
D7102	RH1S-T3	SI DIODE	
D7103	RH1S-T3	SI DIODE	
TRANSISTOR			
Q7101	2SC1906-T	SI TRANSISTOR	
Q7102	2SA1005/MLK/-T	SI TRANSISTOR	
Q7103	2SC1959/Y/-T	SI TRANSISTOR	
Q7104	2SA562TH/Y/-T	SI TRANSISTOR	
Q7105	2SJ403	F.E.T.	
Q7106	IRF1620G	F.E.T.	
OTHERS			
K7101	CE41492-001Z	CHOKE COIL	
LC7101	NQR0169-001X	EMI FILTER	

REMOCON SENSOR P.W. BOARD ASS'Y

(SSB-8053A-M2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R8001	NRS463J-102X	MG R	1kΩ 1/16W J
CAPACITOR			
C8001	NCB31CK-104X	C CAP.	0.1μF 16V K
C8002	QETN1EM-476Z	E CAP.	47μF 25V M
DIODE			
D8001	MA3068/M/-X	ZENER DIODE	
IC			
IC8001	GP1U281Q	IR DETECT UNIT	

LINE FILTER P.W. BOARD ASS'Y (SSB-9053A-M2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
Δ R9901	QRZ9041-275	C R	2.7MΩ 1/2W K
R9911	QRE121J-5R6Y	C R	5.6Ω 1/2W J
CAPACITOR			
Δ C9901	QFZ9072-104	MF CAP.	0.1μFAC275V K
Δ C9902	QFZ9072-104	MF CAP.	0.1μFAC275V K
Δ C9903	QFZ9072-104	MF CAP.	0.1μFAC275V K
C9911	QETN1CM-108Z	E CAP.	1000μF 16V M
C9921	QETM1HM-108	E CAP.	1000μF 50V M
TRANSF			
Δ T9911	QQT0361-001	POWER TRANSF.	
DIODE			
D9911	1SR35-400A-T2	SI DIODE	
D9912	1SR35-400A-T2	SI DIODE	
D9913	1SR35-400A-T2	SI DIODE	
D9914	1SR35-400A-T2	SI DIODE	
D9921	1SR35-400A-T2	SI DIODE	
OTHERS			
Δ CN90PW	QMPD200-200-JC	POWER CORD	or QMPD390-200-JS
Δ F9901	QMF61U1-7R0-S	FUSE	7.0A
Δ LF9901	QQR0972-002	LINE FILTER	
Δ LF9902	QQR0972-002	LINE FILTER	
Δ LF9903	QQR1281-001	LINE FILTER	
Δ VA9901	ERZV10V621CS	VARIATOR	

CENTER SPEAKER P.W. BOARD ASS'Y

(SSB0A053A-M2)

Symbol No.	Part No.	Part Name	Description
OTHERS			
J0001	CENT019-001	SP TERMINAL	

DEF. OSC. P.W. BOARD ASS'Y (SSB0H053A-M2)

Symbol No.	Part No.	Part Name	Description
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RESISTOR

R0101	NRSA63J-102X	MG R	1kΩ 1/16W J
R0108	NRSA63J-681X	MG R	680Ω 1/16W J
R0104	NRSA63J-103X	MG R	10kΩ 1/16W J
R0105	NRSA63J-473X	MG R	47kΩ 1/16W J
R0106	NRSA63J-123X	MG R	12kΩ 1/16W J
R0107	NRSA63J-103X	MG R	10kΩ 1/16W J
R0109	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R0110	NRSA63J-223X	MG R	22kΩ 1/16W J
R0111	NRVA63D-153X	MF R	15kΩ 1/16W D
R0112	NRVA63D-182X	MF R	1.8kΩ 1/16W D
R0113	NRVA63D-123X	MF R	12kΩ 1/16W D
R0114	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0116	NRVA63D-182X	MF R	1.8kΩ 1/16W D
R0117	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R0120	NRSA63J-183X	MG R	18kΩ 1/16W J
R0121	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R0122	QRC01GJ-470	OM R	47Ω 1W J
R0123	QK126J-101X	C R	100Ω 1/2W J
R0126	NRSA63J-103X	MG R	10kΩ 1/16W J
R0127	NRSA63J-103X	MG R	10kΩ 1/16W J
R0129	NRVA63D-183X	MF R	18kΩ 1/16W D
R0131	NRSA63J-102X	MG R	1kΩ 1/16W J
R0133	NRSA63J-151X	MG R	150Ω 1/16W J
R0134	NRSA63J-334X	MG R	330kΩ 1/16W J
R0137	NRSA63J-103X	MG R	10kΩ 1/16W J
R0139	NRSA63J-223X	MG R	22kΩ 1/16W J
R0140	NRSA63J-103X	MG R	10kΩ 1/16W J
R0141	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0142	NRSA63J-103X	MG R	10kΩ 1/16W J
R0143	NRSA63J-471X	MG R	470Ω 1/16W J
R0161	NRSA63J-221X	MG R	220Ω 1/16W J
R0162	NRSA63J-221X	MG R	220Ω 1/16W J
R0163	NRSA63J-101X	MG R	100Ω 1/16W J
R0164	NRSA63J-101X	MG R	100Ω 1/16W J
R0167	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0168	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0169	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R0170	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0171	NRSA63J-223X	MG R	22kΩ 1/16W J
R0172	NRSA63J-473X	MG R	47kΩ 1/16W J
R0174	NRSA63J-102X	MG R	1kΩ 1/16W J
R0175	NRSA63J-102X	MG R	1kΩ 1/16W J
R0176	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0177	NRSA63J-123X	MG R	12kΩ 1/16W J
R0178	NRSA63J-821X	MG R	820Ω 1/16W J
R0179	NRVA63D-562X	MF R	5.6kΩ 1/16W D
R0180	NRVA63D-152X	MF R	1.5kΩ 1/16W D
R0182	NRSA63J-102X	MG R	1kΩ 1/16W J
R0183	NRSA63J-102X	MG R	1kΩ 1/16W J
R0184	NRVA63D-473X	MF R	47kΩ 1/16W D
R0185	NRVA63D-103X	MF R	10kΩ 1/16W D
R0186	NRSA63J-103X	MG R	10kΩ 1/16W J
R0187	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0188	NRVA63D-101X	MF R	100Ω 1/16W D
R0189	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0190	NRSA63J-181X	MG R	180Ω 1/16W J
R0216	NRSA63J-221X	MG R	220Ω 1/16W J
R0217	NRSA63J-221X	MG R	220Ω 1/16W J
R0223	NRSA63J-101X	MG R	100Ω 1/16W J
R0224	NRSA63J-101X	MG R	100Ω 1/16W J
R0226	NRSA63J-101X	MG R	100Ω 1/16W J
R0227	NRSA63J-102X	MG R	1kΩ 1/16W J
R0230	NRSA63J-223X	MG R	22kΩ 1/16W J
R0321	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0326	NRSA63J-224X	MG R	220kΩ 1/16W J
R0327	NRSA63J-224X	MG R	220kΩ 1/16W J
R0328	NRSA63J-563X	MG R	56kΩ 1/16W J
R0329	NRSA63J-224X	MG R	220kΩ 1/16W J
R0330	NRSA63J-683X	MG R	68kΩ 1/16W J
R0751	NRSA63J-183X	MG R	18kΩ 1/16W J
R0752	NRSA63J-103X	MG R	10kΩ 1/16W J
R0753	NRSA63J-822X	MG R	8.2kΩ 1/16W J

Symbol No.	Part No.	Part Name	Description
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RESISTOR

R0754	NRSA63J-183X	MG R	18kΩ 1/16W J
R0755	NRSA63J-183X	MG R	18kΩ 1/16W J
R0756	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R0757	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R0761	QRE121J-184Y	C R	180kΩ 1/2W J
R0762	QRE121J-184Y	C R	180kΩ 1/2W J
R0763	QRE121J-184Y	C R	180kΩ 1/2W J
R0764	QRE121J-184Y	C R	180kΩ 1/2W J
R0765	QRE121J-184Y	C R	180kΩ 1/2W J

CAPACITOR

C0102	NCB31HK-103X	C CAP.	0.01μF 50V K
C0103	NCB31HK-103X	C CAP.	0.01μF 50V K
C0104	NDC31HJ-561X	C CAP.	560pF 50V J
C0106	NDC31HJ-102X	C CAP.	1000pF 50V J
C0107	NDC31HJ-122X	C CAP.	1200pF 50V J
C0108	QETN1HM-475Z	E CAP.	4.7μF 50V M
C0109	NCB31HK-103X	C CAP.	0.01μF 50V K
C0110	NCB31HK-102X	C CAP.	1000pF 50V K
C0111	QETN1HM-225Z	E CAP.	2.2μF 50V M
C0112	QETN1HM-225Z	E CAP.	2.2μF 50V M
C0113	NDC31HJ-122X	C CAP.	1200pF 50V J
C0114	NDC31HJ-102X	C CAP.	1000pF 50V J
C0115	NDC31HJ-102X	C CAP.	1000pF 50V J
C0116	NCB31HK-103X	C CAP.	0.01μF 50V K
C0117	QTMN1CM-477Z	E CAP.	470μF 16V M
C0118	NCB31HK-103X	C CAP.	0.01μF 50V K
C0119	QETN1EM-476Z	E CAP.	47μF 25V M
C0120	QETN1EM-476Z	E CAP.	47μF 25V M
C0121	QETN1CM-107Z	E CAP.	100μF 16V M
C0122	NCB31HK-103X	C CAP.	0.01μF 50V K
C0123	NCB31HK-103X	C CAP.	0.01μF 50V K
C0124	NCB31HK-103X	C CAP.	0.01μF 50V K
C0131	NDC31HJ-101X	C CAP.	100pF 50V J
C0132	QETN1HM-105Z	E CAP.	1μF 50V M
C0133	NCB21EK-124X	C CAP.	0.12μF 25V K
C0134	NCB31EK-273X	C CAP.	0.027μF 25V K
C0135	NDC31HJ-102X	C CAP.	1000pF 50V J
C0136	NDC31HJ-102X	C CAP.	1000pF 50V J
C0137	NDC31HJ-102X	C CAP.	1000pF 50V J
C0138	NDC31HJ-151X	C CAP.	150pF 50V J
C0161	QETN1CM-108Z	E CAP.	1000μF 16V M
C0162	NCB31HK-103X	C CAP.	0.01μF 50V K
C0163	QETN1AM-477Z	E CAP.	470μF 10V M
C0164	NCB31HK-103X	C CAP.	0.01μF 50V K
C0165	NCB31CK-104X	C CAP.	0.1μF 16V K
C0166	QETN1HM-106Z	E CAP.	10μF 50V M
C0167	NCB31HK-332X	C CAP.	3300pF 50V K
C0168	NCB31HK-103X	C CAP.	0.01μF 50V K
C0169	NCB31CK-104X	C CAP.	0.1μF 16V K
C0170	NCB31HK-103X	C CAP.	0.01μF 50V K
C0171	QFV71HJ-184Z	MF CAP.	0.18μF 50V J
C0172	QFV71HJ-394Z	MF CAP.	0.39μF 50V J
C0173	NCB31HK-153X	C CAP.	0.015μF 50V K
C0174	NCB31HK-272X	C CAP.	2700pF 50V K
C0175	NCB31HK-152X	C CAP.	1500pF 50V K
C0176	QFV71HJ-184Z	MF CAP.	0.18μF 50V J
C0178	NCB31CK-104X	C CAP.	0.1μF 16V K
C0179	NCB31CK-104X	C CAP.	0.1μF 16V K
C0180	NCB31CK-104X	C CAP.	0.1μF 16V K
C0181	NCB31CK-104X	C CAP.	0.1μF 16V K
C0182	NCB31CK-104X	C CAP.	0.1μF 16V K
C0212	QETN1HM-106Z	E CAP.	10μF 50V M
C0221	QETN1HM-105Z	E CAP.	1μF 50V M
C0321	NCB31HK-102X	C CAP.	1000pF 50V K
C0751	QFLC1HJ-563Z	M CAP.	0.056μF 50V J
C0752	QETN1VM-476Z	E CAP.	47μF 35V M
C0753	QFZ0200-153	MPP CAP.	0.015μF 1.5kVH±3%
C0761	QFZ0122-68Z	MPP CAP.	6800pF 1.8kVH±3%
C0762	QCZ0122-471	C CAP.	470pF 2kV K
C0763	QCZ0122-471	C CAP.	470pF 2kV K

AV JACK P.W. BOARD ASS'Y (SSB0J053A-M2)

Symbol No.	Part No.	Part Name	Description
COIL			
L0101	QQL01BK-470Z	COIL	47μH K
L0103	NQL092K-100X	COIL	10μH
L0104	NQL092K-100X	COIL	10μH
L0105	QQL01BK-101Z	COIL	100μH K
DIODE			
D0164	1SS355-X	SI. DIODE	
D0165	NRS463J-OROX	MG R	0.0Ω 1/16W J
D0221	1SS355-X	SI. DIODE	
D0321	1SS355-X	SI. DIODE	
D0751	ES1F-LFG2	SI. DIODE	
D0752	ES1F-LFG2	SI. DIODE	
TRANSISTOR			
Q0101	2SD601A/QR/-X	SI. TRANSISTOR	
Q0102	2SD601A/QR/-X	SI. TRANSISTOR	
Q0131	2SD601A/QR/-X	SI. TRANSISTOR	
Q0132	2SD601A/QR/-X	SI. TRANSISTOR	
Q0162	2SD601A/QR/-X	SI. TRANSISTOR	
Q0167	2SD601A/QR/-X	SI. TRANSISTOR	
Q0168	2SD601A/QR/-X	SI. TRANSISTOR	
Q0751	2SD601A/QR/-X	SI. TRANSISTOR	
Q0752	2SD601A/QR/-X	SI. TRANSISTOR	
Q0753	2SC4632	POWER TRANSISTOR	
IC			
IC0101	LA7860M-X	I. C.	
IC0102	BA12FP-X	I. C.	
IC0161	AN5441SA-W	I. C.	
IC0162	BA10893F-XE	I. C.	
IC0212	CXA1875AM-X	I. C.	

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0101	NRS463J-333X	MG R	33KΩ 1/16W J
R0102	NRS463J-750X	MG R	75Ω 1/16W J
R0103	NRS463J-750X	MG R	75Ω 1/16W J
R0104	NRS463J-750X	MG R	75Ω 1/16W J
R0105	NRS463J-224X	MG R	220KΩ 1/16W J
R0106	NRS463J-224X	MG R	220KΩ 1/16W J
R0107	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0108	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0125	NRS463J-750X	MG R	75Ω 1/16W J
R0126	NRS463J-224X	MG R	220KΩ 1/16W J
R0127	NRS463J-224X	MG R	220KΩ 1/16W J
R0131	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0132	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0133	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0141	NRS463J-333X	MG R	33KΩ 1/16W J
R0142	NRS463J-750X	MG R	75Ω 1/16W J
R0143	NRS463J-750X	MG R	75Ω 1/16W J
R0144	NRS463J-750X	MG R	75Ω 1/16W J
R0145	NRS463J-224X	MG R	220KΩ 1/16W J
R0146	NRS463J-224X	MG R	220KΩ 1/16W J
R0147	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0148	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0201	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0202	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0203	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0204	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0205	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0206	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0207	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0208	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0211	NRS463J-151X	MG R	150Ω 1/16W J
R0213	NRS463J-151X	MG R	150Ω 1/16W J
R0215	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0216	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0217	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0218	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0219	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0220	NRS463J-151X	MG R	150Ω 1/16W J
R0322	NRS463J-750X	MG R	75Ω 1/16W J
R0325	NRS463J-750X	MG R	75Ω 1/16W J
R0328	NRS463J-750X	MG R	75Ω 1/16W J
R0342	NRS463J-750X	MG R	75Ω 1/16W J
R0345	NRS463J-750X	MG R	75Ω 1/16W J
R0348	NRS463J-750X	MG R	75Ω 1/16W J
R0401	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0402	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0403	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0404	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0405	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0409	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0410	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0411	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0412	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0436	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0438	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0439	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0440	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0441	NRS463J-OROX	MG R	0.0Ω 1/16W J
R0471	NRS402J-221X	MG R	220Ω 1/10W J
R0473	NRS402J-121X	MG R	120Ω 1/10W J
R0475	NRS402J-221X	MG R	220Ω 1/10W J
R0477	NRS402J-121X	MG R	120Ω 1/10W J
R0481	NRS402J-101X	MG R	100Ω 1/10W J
R0482	NRS402J-101X	MG R	100Ω 1/10W J
R0601	NRS402J-OROX	MG R	0.0Ω 1/10W J
R0602	NRS402J-103X	MG R	10KΩ 1/10W J
R0603	NRS402J-473X	MG R	47KΩ 1/10W J
R0604	NRS402J-393X	MG R	39KΩ 1/10W J
R0605	NRS402J-104X	MG R	100KΩ 1/10W J
R0607	NRS402J-333X	MG R	33KΩ 1/10W J
R0608	NRS402J-103X	MG R	10KΩ 1/10W J
R0609	NRS402J-OROX	MG R	0.0Ω 1/10W J

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C0101	NCB11CK-105X	C CAP.	1µF 16V K
C0102	NCB31HK-103X	C CAP.	0.01µF 50V K
C0103	QETN1HM-106Z	E CAP.	10µF 50V M
C0104	QETN1HM-106Z	E CAP.	10µF 50V M
C0105	QETN1HM-105Z	E CAP.	1µF 50V M
C0106	QETN1HM-105Z	E CAP.	1µF 50V M
C0126	QETN1HM-106Z	E CAP.	10µF 50V M
C0127	QETN1HM-105Z	E CAP.	1µF 50V M
C0128	QETN1HM-105Z	E CAP.	1µF 50V M
C0141	NCB11CK-105X	C CAP.	1µF 16V K
C0142	NCB31HK-103X	C CAP.	0.01µF 50V K
C0143	QETN1HM-106Z	E CAP.	10µF 50V M
C0144	QETN1HM-106Z	E CAP.	10µF 50V M
C0145	QETN1HM-105Z	E CAP.	1µF 50V M
C0146	QETN1HM-105Z	E CAP.	1µF 50V M
C0321	QETN1EM-476Z	E CAP.	47µF 25V M
C0322	QETN1EM-476Z	E CAP.	47µF 25V M
C0323	QETN1EM-476Z	E CAP.	47µF 25V M
C0341	QETN1HM-105Z	E CAP.	1µF 50V M
C0342	QETN1HM-105Z	E CAP.	1µF 50V M
C0343	QETN1HM-105Z	E CAP.	1µF 50V M
C0421	NCF11EZ-105X	C CAP.	1µF 25V Z
C0431	NDC21HJ-221X	C CAP.	220pF 50V J
C0432	QENCLHM-106Z	BP E CAP.	10µF 50V M
C0433	QENCLHM-106Z	BP E CAP.	10µF 50V M
C0434	NDC21HJ-221X	C CAP.	220pF 50V J
C0435	QENCLHM-106Z	BP E CAP.	10µF 50V M
C0436	QENCLHM-106Z	BP E CAP.	10µF 50V M
C0601	NDC21HJ-680X	C CAP.	68pF 50V J
C0602	QENCLHM-105Z	E CAP.	1µF 50V M
C0603	QETN1EM-476Z	E CAP.	47µF 25V M
C0604	QETN1EM-476Z	E CAP.	47µF 25V M
C0605	QETN1HM-474Z	E CAP.	0.47µF 50V M
C0606	NCB21HK-222X	C CAP.	220pF 50V K
C0607	NCB21HK-472X	C CAP.	470pF 50V K
C0608	NCB21HK-473X	C CAP.	0.047µF 50V K
C0610	QETN1HM-474Z	E CAP.	0.47µF 50V M
C0612	QETN1HM-475Z	E CAP.	4.7µF 50V M
C0613	NDC21HJ-681X	C CAP.	680pF 50V J
C0614	NCB21HK-153X	C CAP.	0.015µF 50V K
C0615	NDC21HJ-102X	C CAP.	100pF 50V J
C0616	NDC21HJ-821X	C CAP.	820pF 50V J
C0617	NDC21HJ-680X	C CAP.	68pF 50V J
C0618	NDC21HJ-121X	C CAP.	120pF 50V J
C0619	NCF11EZ-105X	C CAP.	1µF 25V Z
C0620	NCF11EZ-105X	C CAP.	1µF 25V Z
C0621	NDC21HJ-100X	C CAP.	10pF 50V J
C0622	NDC21HJ-331X	C CAP.	330pF 50V J

COIL

L0431	QQL25CK-100Z	COIL	10µH K
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DIODE

D0101	UDZS10B-X	ZENER DIODE
D0141	UDZS10B-X	ZENER DIODE
D0201	UDZS10B-X	ZENER DIODE
D0202	UDZS10B-X	ZENER DIODE
D0203	UDZS10B-X	ZENER DIODE
D0204	UDZS10B-X	ZENER DIODE
D0207	UDZS10B-X	ZENER DIODE
D0209	UDZS10B-X	ZENER DIODE
D0210	UDZS10B-X	ZENER DIODE
D0211	UDZS10B-X	ZENER DIODE
D0212	UDZS10B-X	ZENER DIODE
D0213	UDZS10B-X	ZENER DIODE
D0215	UDZS10B-X	ZENER DIODE
D0216	UDZS10B-X	ZENER DIODE
D0217	UDZS10B-X	ZENER DIODE
D0218	UDZS10B-X	ZENER DIODE
D0219	UDZS10B-X	ZENER DIODE
D0220	UDZS10B-X	ZENER DIODE
D0401	UDZS9.1B-X	ZENER DIODE

Symbol No.	Part No.	Part Name	Description
D0402	UDZS9.1B-X	ZENER DIODE	
D0403	UDZS9.1B-X	ZENER DIODE	
D0404	UDZS9.1B-X	ZENER DIODE	
D0405	UDZS9.1B-X	ZENER DIODE	
D0406	UDZS9.1B-X	ZENER DIODE	
D0471	MA153A-X	SI DIODE	
D0473	MA153A-X	SI DIODE	

IC

IC0601	M52001SP	I.C.
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OTHERS

CN0006	QGB1505K1-40	B TO B CONNECTOR
CN0007	QGB1505K1-25	B TO B CONNECTOR
J0101	QNZ0484-006	AV JACK
J0141	QNZ0484-004	AV JACK
J0321	QNN0463-001	JACK
J0341	QNN0463-001	JACK
LC0321	NQR0169-001X	EMI FILTER
LC0322	NQR0169-001X	EMI FILTER
LC0323	NQR0169-001X	EMI FILTER
LC0341	NQR0169-001X	EMI FILTER
LC0342	NQR0169-001X	EMI FILTER
LC0343	NQR0169-001X	EMI FILTER

FRONT CONTROL P.W. BOARD ASS'Y (SSB0L053A-M2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0201	NRS463J-472X	MG R	4.7kΩ 1/16W J
R0202	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0203	NRS463J-822X	MG R	8.2kΩ 1/16W J
R0204	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0401	NRS463J-750X	MG R	75Ω 1/16W J
R0402	NRS463J-224X	MG R	220kΩ 1/16W J
R0403	NRS463J-224X	MG R	220kΩ 1/16W J
R0404	NRS463J-750X	MG R	75Ω 1/16W J
R0405	NRS463J-750X	MG R	75Ω 1/16W J
R0406	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0411	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0412	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0413	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0414	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0415	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0416	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0417	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0418	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0419	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0420	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0702	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0703	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0706	NRS463J-101X	MG R	100Ω 1/16W J
R0707	NRS463J-103X	MG R	10kΩ 1/16W J
R0708	NRS463J-333X	MG R	33kΩ 1/16W J
R0711	NRS463J-102X	MG R	1kΩ 1/16W J
R0712	NRS463J-333X	MG R	33kΩ 1/16W J
R0732	NRS463J-333X	MG R	33kΩ 1/16W J
R0748	NRS463J-562X	MG R	5.6kΩ 1/16W J
R0749	NRS463J-153X	MG R	15kΩ 1/16W J
R0750	NRS463J-562X	MG R	5.6kΩ 1/16W J
R0751	NRS463J-153X	MG R	15kΩ 1/16W J

CAPACITOR

C0442	QETN1HM-105Z	E CAP.	1μF 50V M
C0443	QETN1HM-105Z	E CAP.	1μF 50V M
C0444	QETN1HM-106Z	E CAP.	10μF 50V M
C0445	QETN1HM-106Z	E CAP.	10μF 50V M
C0446	QFLCHJ-103Z	M CAP.	0.01μF 50V J
C0711	QETN1CM-336Z	E CAP.	33μF 16V M
C0712	NCB31CK-104X	C CAP.	0.1μF 16V K
C0713	NCB31CK-104X	C CAP.	0.1μF 16V K

DIODE

D0402	UDZS10B-X	ZENER DIODE	
D0403	UDZS10B-X	ZENER DIODE	
D0404	UDZS10B-X	ZENER DIODE	
D0405	UDZS10B-X	ZENER DIODE	
D0406	UDZS10B-X	ZENER DIODE	
D0701	SEL15E20C	LED	
D0735	UDZS10B-X	ZENER DIODE	

TRANSISTOR

Q0201	DTC124EKA-X	DIGI. TRANSISTOR	
Q0701	2SC2412K/QR/-X	SI. TRANSISTOR	
Q0702	2SC2412K/QR/-X	SI. TRANSISTOR	

IC

IC0201	PC123F2	I.C.(PHOTO COUPLER)	
IC0702	MM1437AF-X	I.C.	

OTHERS

J0401	QNZ0438-001	AV JACK	
S0701	QSW0619-003Z	PUSH SWITCH	POWER
S0702	QSW0619-003Z	PUSH SWITCH	MENU
S0703	QSW0619-003Z	PUSH SWITCH	CH-
S0704	QSW0619-003Z	PUSH SWITCH	CH+
S0705	QSW0619-003Z	PUSH SWITCH	VOL-
S0706	QSW0619-003Z	PUSH SWITCH	VOL+
S0707	QSW0619-003Z	PUSH SWITCH	POWER

RECEIVER P.W. BOARD ASS'Y (SSB0R253A-M2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0101	NRS463J-103X	MG R	10kΩ 1/16W J
R0102	NRS463J-103X	MG R	10kΩ 1/16W J
R0103	NRS463J-333X	MG R	33kΩ 1/16W J
R0104	NRS463J-103X	MG R	10kΩ 1/16W J
R0105	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0106	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0107	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0108	NRS463J-473X	MG R	47kΩ 1/16W J
R0109	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0110	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0111	NRS463J-101X	MG R	100Ω 1/16W J
R0113	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0125	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0126	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0201	NRS463J-102X	MG R	1kΩ 1/16W J
R0202	NRS463J-682X	MG R	6.8kΩ 1/16W J
R0203	NRS463J-153X	MG R	15kΩ 1/16W J
R0204	NRS463J-332X	MG R	3.3kΩ 1/16W J
R0205	NRV402D-153X	MF R	15kΩ 1/10W D
R0206	NRS463J-333X	MG R	33kΩ 1/16W J
R0207	NRS463J-683X	MG R	68kΩ 1/16W J
R0208	NRV402D-152X	MF R	1.5kΩ 1/10W D
R0209	NRS463J-101X	MG R	100Ω 1/16W J
R0210	NRS463J-101X	MG R	100Ω 1/16W J
R0211	NRS463J-563X	MG R	56kΩ 1/16W J
R0212	NRS463J-562X	MG R	5.6kΩ 1/16W J
R0213	NRS463J-221X	MG R	22Ω 1/16W J
R0214	NRS463J-221X	MG R	22Ω 1/16W J
R0217	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0218	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0531	NRS463J-221X	MG R	22Ω 1/16W J
R0532	NRS463J-221X	MG R	22Ω 1/16W J
R0533	NRS463J-823X	MG R	82kΩ 1/16W J
R0534	NRS463J-221X	MG R	22Ω 1/16W J
R0535	NRS463J-221X	MG R	22Ω 1/16W J
R0536	NRS463J-823X	MG R	82kΩ 1/16W J
R0537	NRS463J-223X	MG R	22kΩ 1/16W J
R0538	NRS463J-223X	MG R	22kΩ 1/16W J
R0539	NRS463J-223X	MG R	22kΩ 1/16W J
R0540	NRS463J-223X	MG R	22kΩ 1/16W J
R0543	NRS463J-153X	MG R	15kΩ 1/16W J
R0551	NRS463J-224X	MG R	220kΩ 1/16W J
R0552	NRS463J-224X	MG R	220kΩ 1/16W J
R0631	NRS463J-102X	MG R	1kΩ 1/16W J
R0632	NRS463J-223X	MG R	22kΩ 1/16W J
R0633	NRS463J-223X	MG R	22kΩ 1/16W J
R0634	NRS463J-102X	MG R	1kΩ 1/16W J
R0635	NRS463J-223X	MG R	22kΩ 1/16W J
R0636	NRS463J-223X	MG R	22kΩ 1/16W J
R0637	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0640	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0641	NRS463J-103X	MG R	10kΩ 1/16W J
R0651	NRS463J-101X	MG R	100Ω 1/16W J
R0653	NRS463J-101X	MG R	100Ω 1/16W J
R0654	NRS463J-103X	MG R	10kΩ 1/16W J
R0656	NRS463J-101X	MG R	100Ω 1/16W J
R0657	NRS463J-101X	MG R	100Ω 1/16W J
R0658	NRS463J-103X	MG R	10kΩ 1/16W J
R0659	NRS463J-104X	MG R	100kΩ 1/16W J
R0660	NRS463J-103X	MG R	10kΩ 1/16W J
R0661	NRS463J-472X	MG R	4.7kΩ 1/16W J
R0662	NRS463J-562X	MG R	5.6kΩ 1/16W J
R0663	NRS463J-472X	MG R	4.7kΩ 1/16W J
R0664	NRS463J-562X	MG R	5.6kΩ 1/16W J
R0666	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0667	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0669	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0670	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0701	NRS463J-102X	MG R	1kΩ 1/16W J

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C0102	QETNLCM-477Z	E CAP.	470µF 16V M
C0108	QETNLHM-106Z	E CAP.	10µF 50V M
C0104	QETNLHM-106Z	E CAP.	10µF 50V M
C0201	QETNLHM-105Z	E CAP.	1µF 50V M
C0202	NCF31CZ-104X	C CAP.	0.1µF 16V Z
C0208	QETNLCM-107Z	E CAP.	100µF 16V M
C0204	QETNLEM-476Z	E CAP.	47µF 25V M
C0207	QENCLHM-105Z	E CAP.	1µF 50V M
C0208	NCB31HK-104X	C CAP.	0.1µF 50V K
C0209	QENCLHM-475Z	E CAP.	4.7µF 50V M
C0210	NCB31HK-473X	C CAP.	0.047µF 50V K
C0211	QETNLHM-474Z	E CAP.	0.47µF 50V M
C0212	QETNLHM-225Z	E CAP.	2.2µF 50V M
C0213	NCB31HK-104X	C CAP.	0.1µF 50V K
C0214	NCB31HK-104X	C CAP.	0.1µF 50V K
C0215	QBTCLCK-335Z	TAN.CAP.	3.3µF 16V K
C0216	QETNLHM-105Z	E CAP.	1µF 50V M
C0217	QBTCLCK-106Z	TAN.CAP.	10µF 16V K
C0218	QETNLHM-105Z	E CAP.	1µF 50V M
C0219	QETNLHM-105Z	E CAP.	1µF 50V M
C0220	QETNLHM-475Z	E CAP.	4.7µF 50V M
C0221	QETNLHM-105Z	E CAP.	1µF 50V M
C0531	QETNLHM-474Z	E CAP.	0.47µF 50V M
C0532	QETNLHM-474Z	E CAP.	0.47µF 50V M
C0551	QETNLHM-105Z	E CAP.	1µF 50V M
C0552	QETNLHM-105Z	E CAP.	1µF 50V M
C0601	QENCLHM-105Z	E CAP.	1µF 50V M
C0602	QENCLHM-105Z	E CAP.	1µF 50V M
C0605	QETNLHM-225Z	E CAP.	2.2µF 50V M
C0606	QETNLHM-225Z	E CAP.	2.2µF 50V M
C0607	NCB31HK-104X	C CAP.	0.1µF 50V K
C0608	NCB31HK-222X	C CAP.	2200pF 50V K
C0609	NCB31HK-104X	C CAP.	0.1µF 50V K
C0610	NCB31HK-222X	C CAP.	2200pF 50V K
C0611	NCB21HK-273X	C CAP.	0.027µF 50V K
C0631	QENCLHM-106Z	BP E CAP.	10µF 50V M
C0632	QENCLHM-106Z	BP E CAP.	10µF 50V M
C0633	QETNLHM-226Z	E CAP.	22µF 50V M
C0634	QFLCLHJ-473Z	M CAP.	0.047µF 50V J
C0635	QFLCLHJ-333Z	M CAP.	0.033µF 50V J
C0636	QFLCLHJ-473Z	M CAP.	0.047µF 50V J
C0637	QFLCLHJ-333Z	M CAP.	0.033µF 50V J
C0638	QETNLEM-476Z	E CAP.	47µF 25V M
C0639	NCF31CZ-104X	C CAP.	0.1µF 16V Z
C0640	QETNLHM-106Z	E CAP.	10µF 50V M
C0651	NCF31CZ-104X	C CAP.	0.1µF 16V Z
C0652	QETNLEM-476Z	E CAP.	47µF 25V M
C0661	QEZO206-335Z	E CAP.	3.3µF 50V M
C0662	QEZO206-335Z	E CAP.	3.3µF 50V M

COIL

L0101	QRN143J-OR0X	C R	0.0Ω 1/4W J
L0102	QRN143J-OR0X	C R	0.0Ω 1/4W J

DIODE

D0213	UDZ58.2B-X	ZENER DIODE
D0214	UDZ58.2B-X	ZENER DIODE
D0531	UDZ510B-X	ZENER DIODE
D0532	UDZ510B-X	ZENER DIODE
D0533	MA111-X	SI DIODE
D0534	MA111-X	SI DIODE
D0551	UDZ59.1B-X	ZENER DIODE
D0552	UDZ59.1B-X	ZENER DIODE
D0661	1SS133-T2	SI DIODE
D0662	1SS133-T2	SI DIODE
D0701	UDZ58.2B-X	ZENER DIODE

Symbol No.	Part No.	Part Name	Description
TRANSISTOR			
Q0101	2SC2412K/QR/-X	SI TRANSISTOR	
Q0531	DTC323TK-X	DIGI. TRANSISTOR	
Q0532	DTC323TK-X	DIGI. TRANSISTOR	
Q0533	DTC323TK-X	DIGI. TRANSISTOR	
Q0534	DTC323TK-X	DIGI. TRANSISTOR	
Q0651	2SC2412K/QR/-X	SI TRANSISTOR	
Q0652	2SA1037AK/QR/-X	SI TRANSISTOR	
Q0661	2SC3311A/QR/-T	SI TRANSISTOR	
Q0662	2SC3311A/QR/-T	SI TRANSISTOR	

IC

IC0201	UPC1851BCU	I.C.
IC0631	NJM2150AD	I.C.
IC0651	M6230FP-X	I.C.

OTHERS

CN0005	QGBJ505K1-40	B TO B CONNECTOR
J0531	CEMN036-004	PIN JACK
J0701	QNS0001-001	JACK
RY0661	QSK0133-001	RELAY
RY0662	QSK0133-001	RELAY
△ TU0101	QAU0206-001	TUNER
UD0101	QAU0283-001	RF SPLITTER

CONVERGENCE OSD P.W. BOARD ASS'Y (SSB0T053A-M2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0701	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R0702	NRSA63J-471X	MG R	470Ω 1/16W J
R0703	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0704	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R0705	NRSA63J-471X	MG R	470Ω 1/16W J
R0706	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0707	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0708	NRSA63J-471X	MG R	470Ω 1/16W J
R0709	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R0713	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0714	NRSA63J-473X	MG R	47kΩ 1/16W J
R0715	NRSA63J-102X	MG R	1kΩ 1/16W J
R0716	NRSA63J-473X	MG R	47kΩ 1/16W J
R0717	NRSA63J-102X	MG R	1kΩ 1/16W J
R0718	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0721	NRSA63J-183X	MG R	18kΩ 1/16W J
R0722	NRSA63J-333X	MG R	33kΩ 1/16W J
R0723	NRSA63J-221X	MG R	220Ω 1/16W J
R0724	NRSA63J-221X	MG R	220Ω 1/16W J
R0725	NRSA63J-221X	MG R	220Ω 1/16W J
R0731	NRSA63J-683X	MG R	68kΩ 1/16W J
R0732	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0733	NRSA63J-683X	MG R	68kΩ 1/16W J
R0735	NRSA63J-102X	MG R	1kΩ 1/16W J
R0736	NRSA63J-683X	MG R	68kΩ 1/16W J
R0737	NRSA63J-683X	MG R	68kΩ 1/16W J
R0738	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0740	NRSA63J-102X	MG R	1kΩ 1/16W J
R0741	NRSA63J-683X	MG R	68kΩ 1/16W J
R0742	NRSA63J-683X	MG R	68kΩ 1/16W J
R0743	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0745	NRSA63J-102X	MG R	1kΩ 1/16W J

CAPACITOR

C0701	QETN1HM-106Z	E CAP.	10μF 50V M
C0702	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0707	NCB11CK-105X	C CAP.	1μF 16V K
C0708	NCB11CK-105X	C CAP.	1μF 16V K
C0709	NCB11CK-105X	C CAP.	1μF 16V K
C0711	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0714	NDC31HJ-181X	C CAP.	180pF 50V J

COIL

L0701	NQL054J-100X	COIL	10μH
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TRANSISTOR

Q0701	2SC2412K/QR/-X	SI. TRANSISTOR
Q0702	2SC2412K/QR/-X	SI. TRANSISTOR
Q0703	2SC2412K/QR/-X	SI. TRANSISTOR
Q0704	2SC2412K/QR/-X	SI. TRANSISTOR
Q0705	2SC2412K/QR/-X	SI. TRANSISTOR

I C

IC0701	TC74HC4053AF-XE	I.C.
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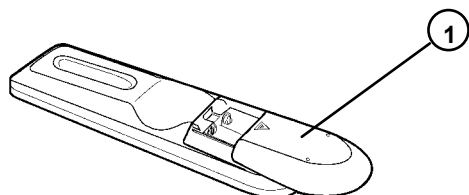
DIGITAL INPUT MODULE P.W. BOARD ASS'Y (SSB-7853A-M2)

△ Symbol No.	Part No.	Part Name	Description
OTHER			
	SSB-7853A-M2	DIGITAL INPUT MODULE	

I-P CONVERT MODULE P.W. BOARD ASS'Y (SSB0D053A-M2)

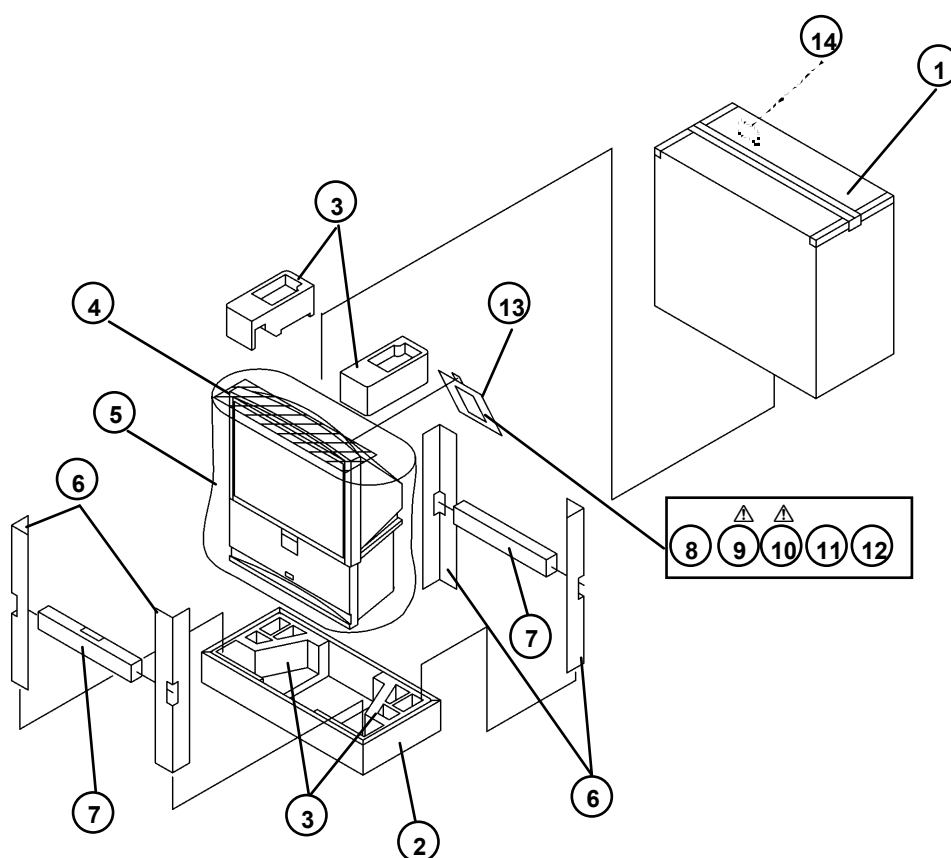
△ Symbol No.	Part No.	Part Name	Description
OTHER			
	SSB0D053A-M2	I-P CONVERT MODULE	

REMOTE CONTROL UNIT PARTS LIST (RM-C322G-1A)



△ Ref.No.	Part No.	Part Name	Description
1	UR52EC1286C	BATTERY COVER	

PACKING



PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description
1	LC11253-002A-A	P.CASE	4pcs in 1set
2	LC31759-002A-A	BOTTOM CASE	
3	LC11410-002A-A	CUSHION ASSY	
4	CP30055-007-A	TOP COVER	
5	CP30056-011-A	POLY BAG	
6	LC31956-001A-A	PAD	(x4)
7	LC32083-001A-A	PROTECT PAD	(x2)
8	RM-C322G-1A	REMOCON UNIT	
△ 9	LCT1237-001A-A	INST BOOK	
△ 10	LCT1238-001A-A	INST BOOK	
11	BT-51028-2Q	REGISTRATION C	
12	BT-52006-1Q	WARRANTY CARD	
13	QPA02503505	POLY BAG	
14	GQ30037-001A-A	CORNER LABEL	

Memo

JVC

SCHEMATIC DIAGRAMS

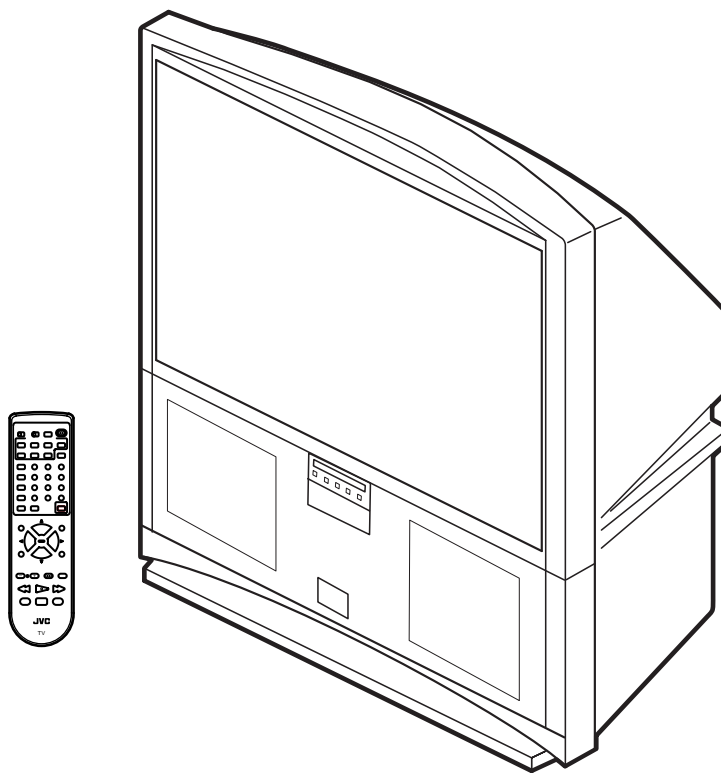
REAR PROJECTION TELEVISION

AV-56WP30

CD-ROM No.SML200206

BASIC CHASSIS

SB2



CONTENTS

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CHANNEL CHART (CA)

MODE		BAND	CHANNEL		TUNER BAND	
TV	CATV		REAL	DISP.		
○	○	VL	02 03 04 05 06		I	
		VH	07 08 09 10 11 12 13		II	
×	○	MID	A	14		III
			B	15		
			C	16		
			D	17		
			E	18		
			F	19		
			G	20		
			H	21		
			I	22		
			SUPER	J	23	
		K		24		
		L		25		
		M		26		
		N		27		
		O		28		
		P		29		
		Q		30		
		R		31		
		S		32		
		T	33			
U	34					
V	35					
W	36					
HYPER	W+1	37				
	W+2	38				
	W+3	39				
	W+4	40				
	W+5	41				
	W+6	42				
	W+7	43				
	W+8	44				
	W+9	45				
	W+10	46				
	W+11	47				
	W+12	48				
	W+13	49				
	W+14	50				
	W+15	51				
	W+16	52				
	W+17	53				
	W+18	54				
	W+19	55				
	W+20	56				
W+21	57					
W+22	58					
W+23	59					
W+24	60					
W+25	61					
W+26	62					
W+27	63					
W+28	64					
ULTRA	W+29	65	IV			
	W+30	66				
	W+31	67				
	W+32	68				
	W+33	69				
	W+34	70				

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	BAND
×	○	ULTRA	W+35	71	IV
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
		W+67	108		
		W+68	109		
		W+69	110		
		W+70	111		
		W+71	112		
		W+72	113		
		W+73	114		
		W+74	115		
		W+75	116		
		W+76	117		
		W+77	118		
		W+78	119		
		W+79	120		
		W+80	121		
W+81	122				
W+82	123				
W+83	124				
W+84	125				
SUB MID	A-8	01	I		
	A-4	96			
	A-3	97	II		
	A-2	98			
A-1	99				
○	×	UHF	14 5 69	IV	
TOTAL 180CH { VHF 124CH UHF 56CH					
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.					

NOTE:
TO RECEIVE THE SUBSCRIPTION OR
PREMIUM PROGRAMMING FROM CERTAIN
CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

AV-56WP30
STANDARD CIRCUIT DIAGRAM

NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Color bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester :DC 20kΩ /V
- (4)Oscilloscope sweeping time :H ⇒ 20μS/div
:V ⇒ 5mS/div
:Others ⇒ Sweeping time is specified
- (5)Voltage values :All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board :R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

- Resistance value

- No unit :[Ω]
- K :[K Ω]
- M :[M Ω]

- Rated allowable power

- No indication :1/ 16 [W]
- Others :As specified

- Type

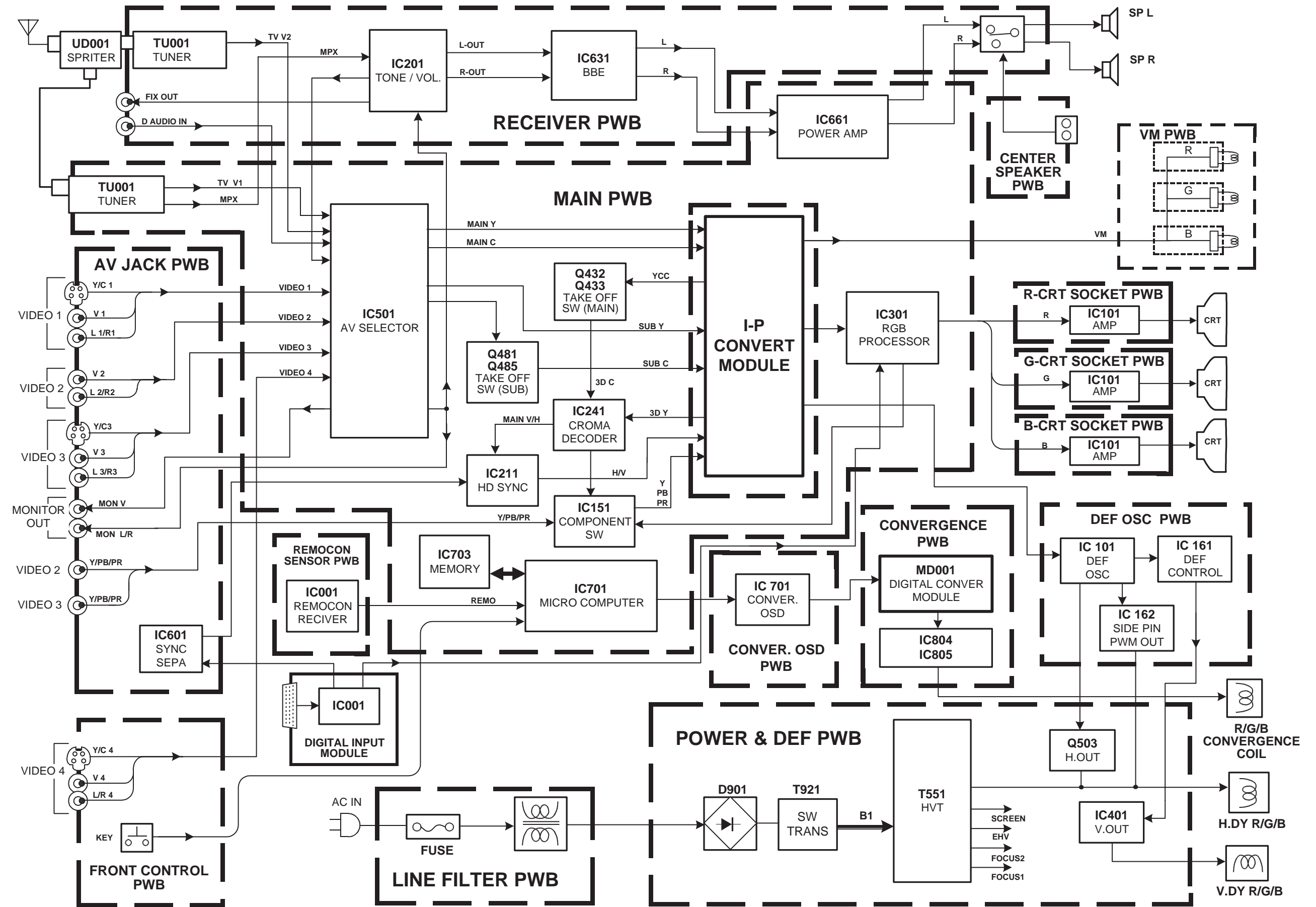
- No indication :Carbon resistor
- OMR :Oxide metal film resistor
- MFR :Metal film resistor
- MPR :Metal plate resistor
- UNFR :Uninflamable resistor
- FR :Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

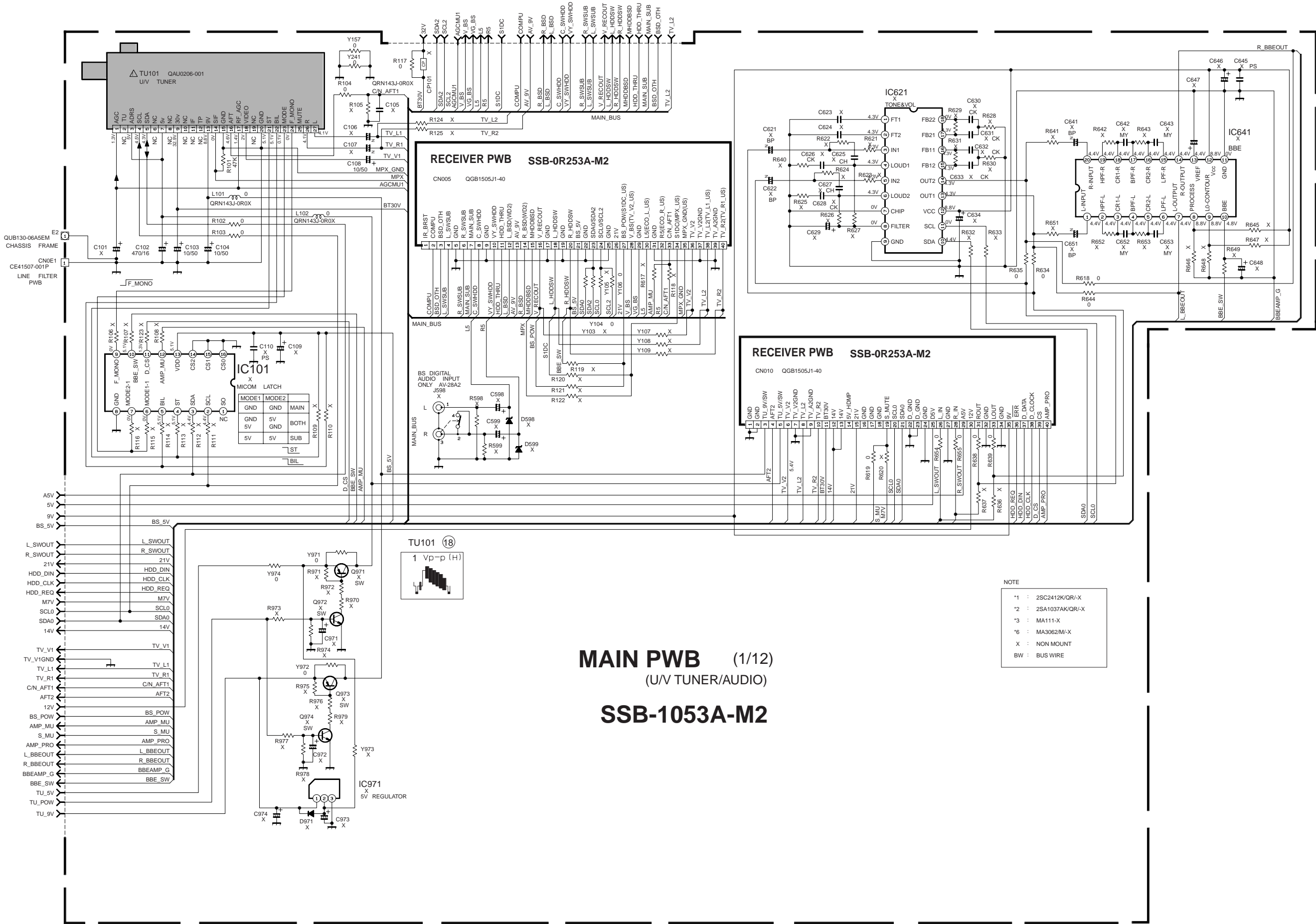
(2)Capacitors

- Capacitance value

BLOCK DIAGRAM



CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAMS [1/12]

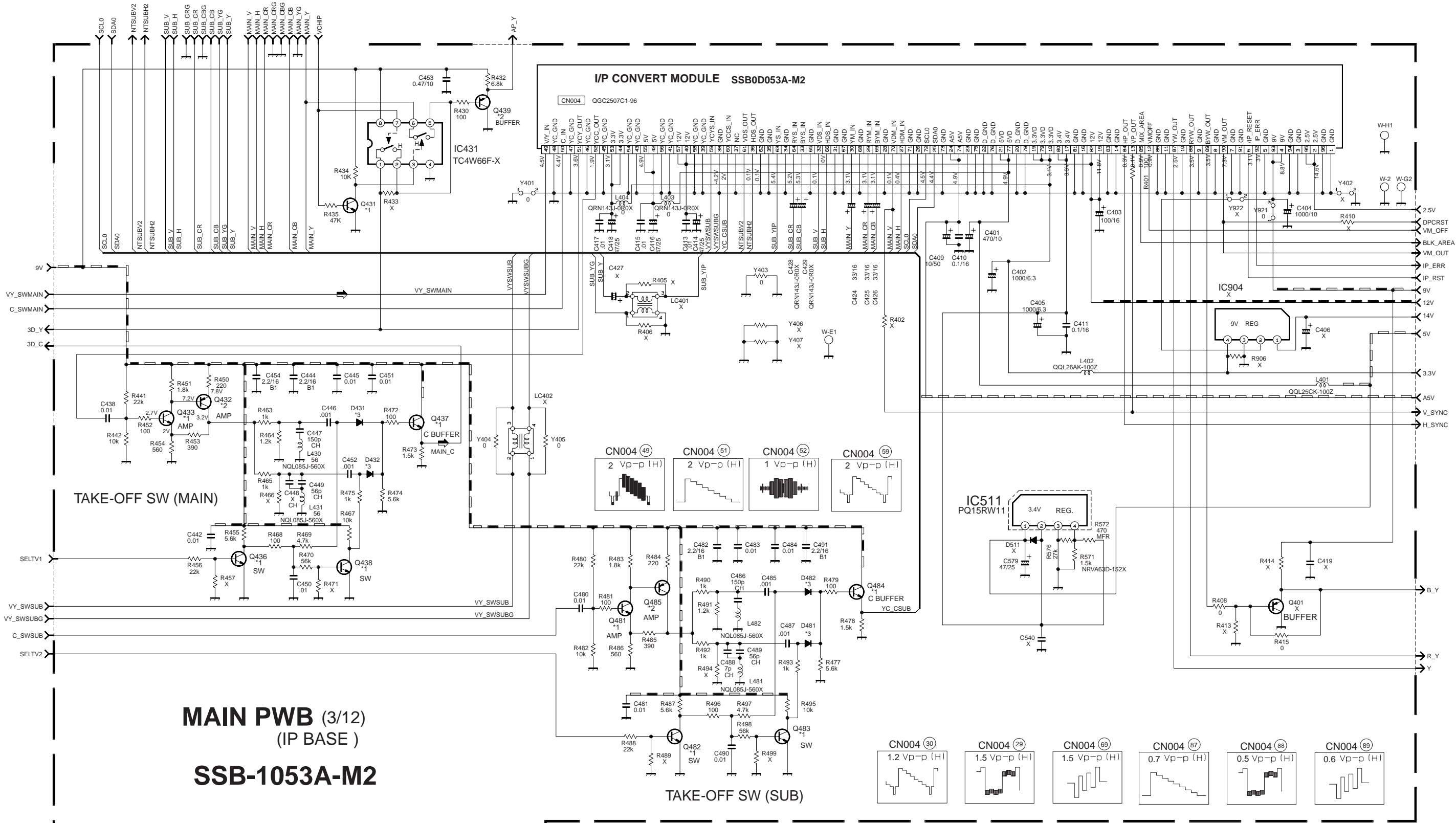


MAIN PWB (2/12)
(AV SELECTOR)

SSB-1053A-M2

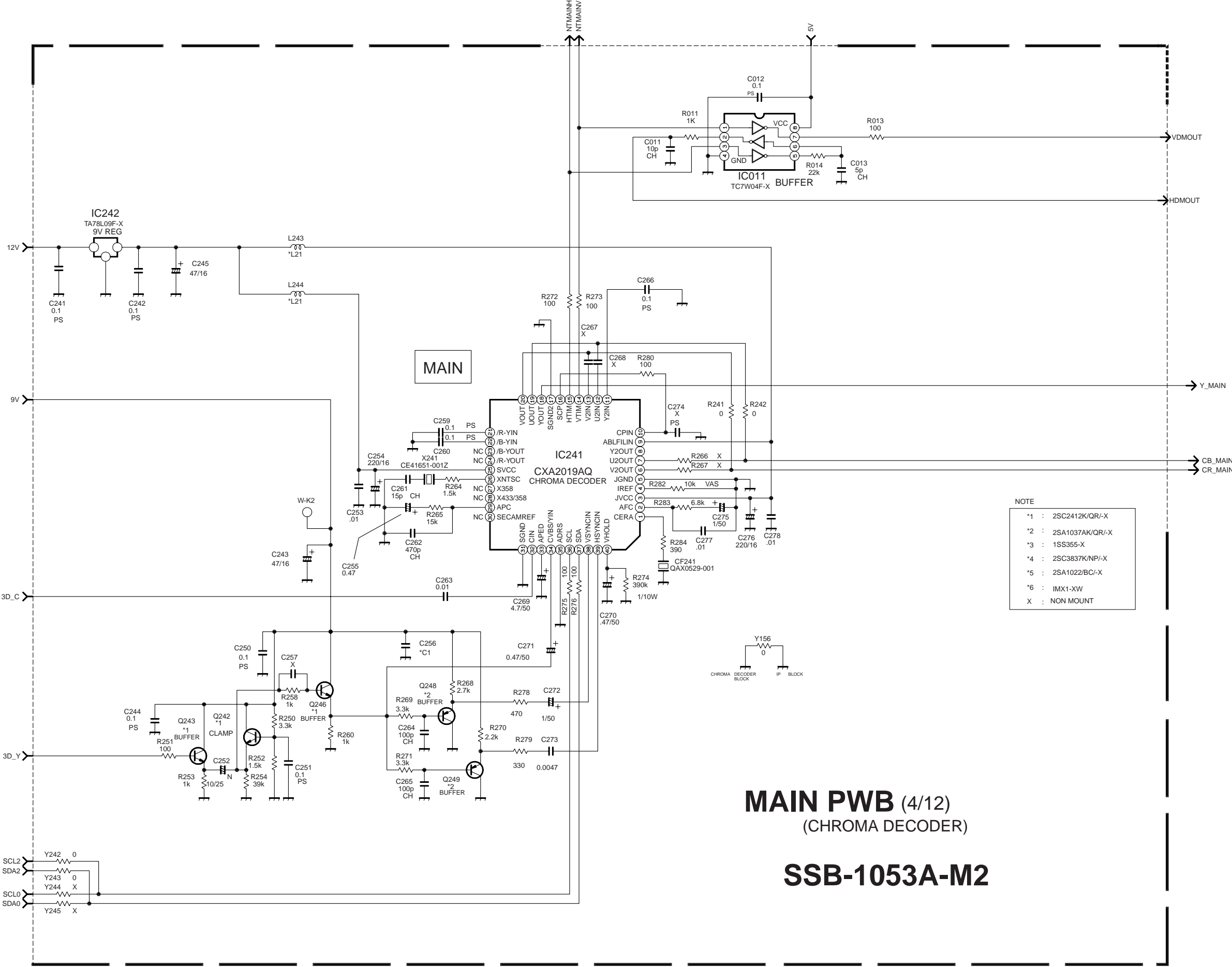


MAIN PWB CIRCUIT DIAGRAM [3/12]

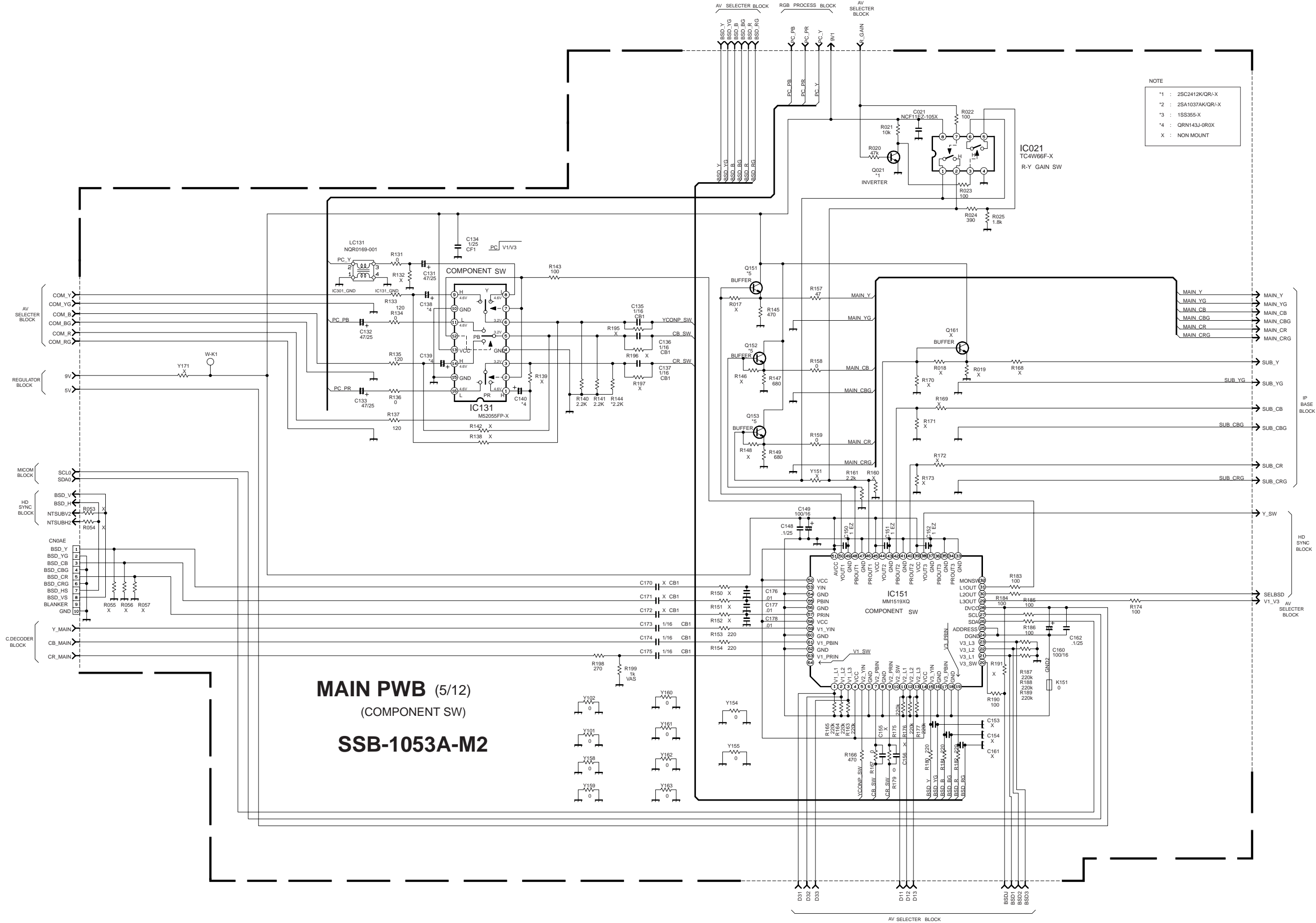


MAIN PWB (3/12)
(IP BASE)
SSB-1053A-M2

MAIN PWB CIRCUIT DIAGRAM [4/12]



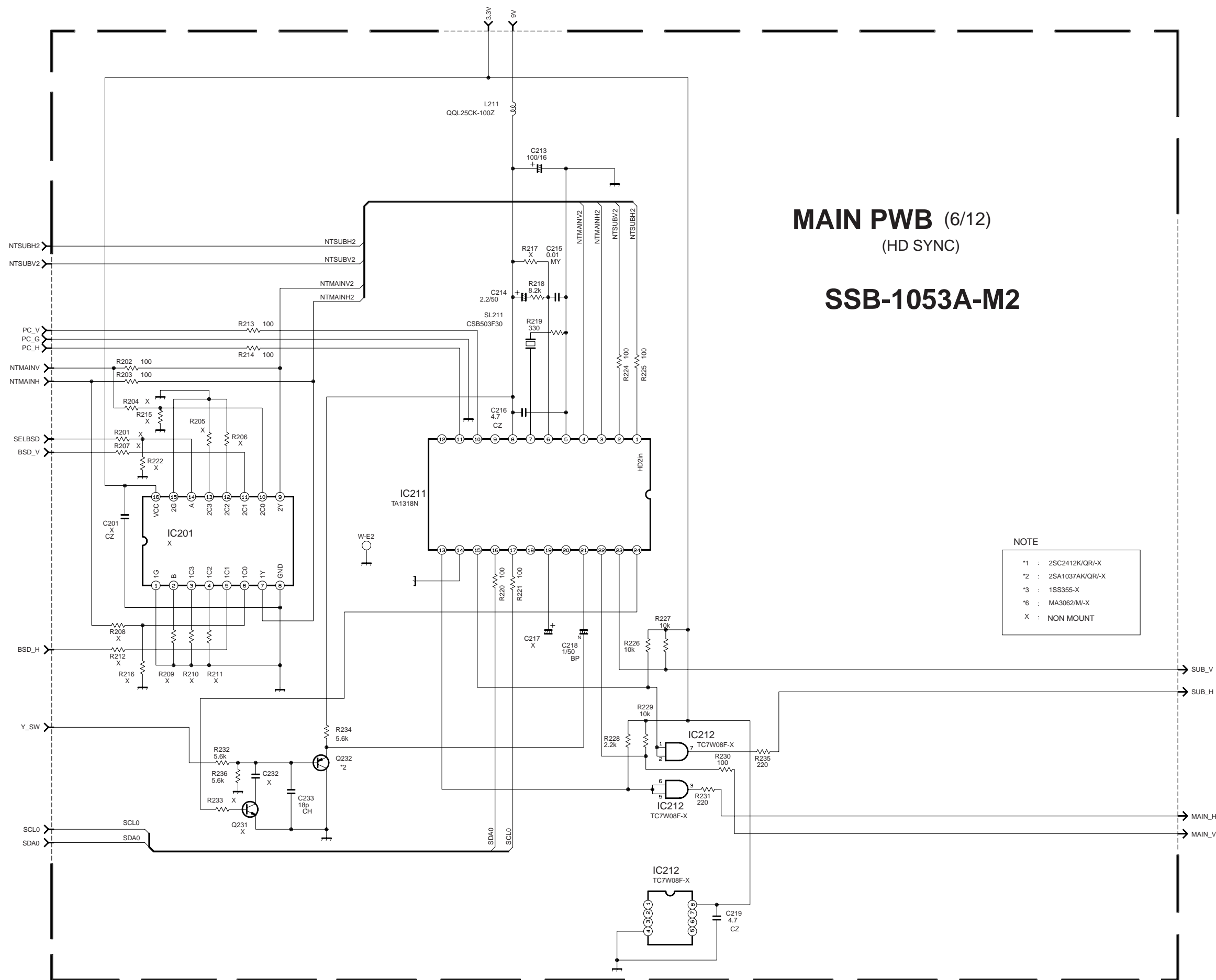
MAIN PWB CIRCUIT DIAGRAM [5/12]



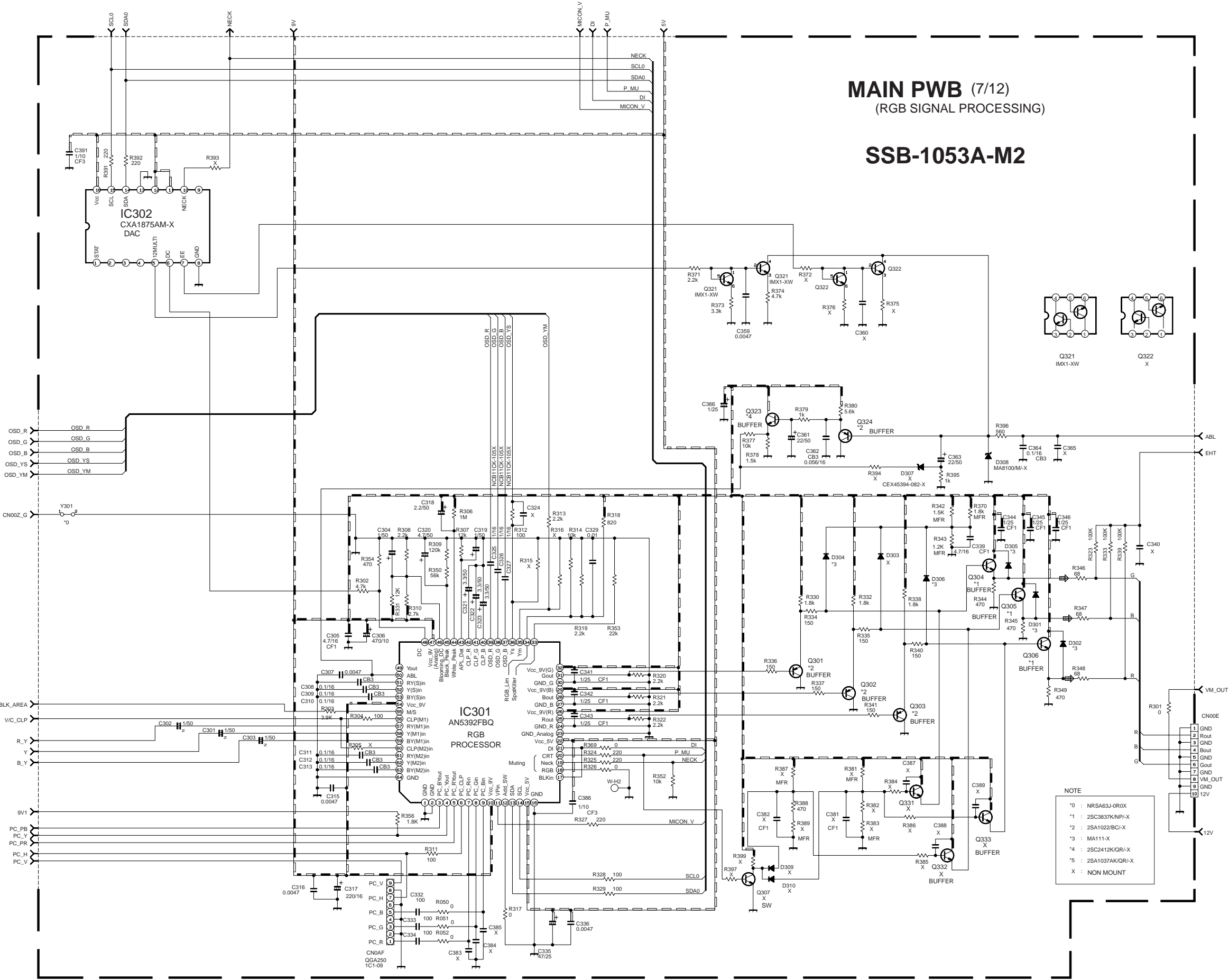
MAIN PWB (5/12)

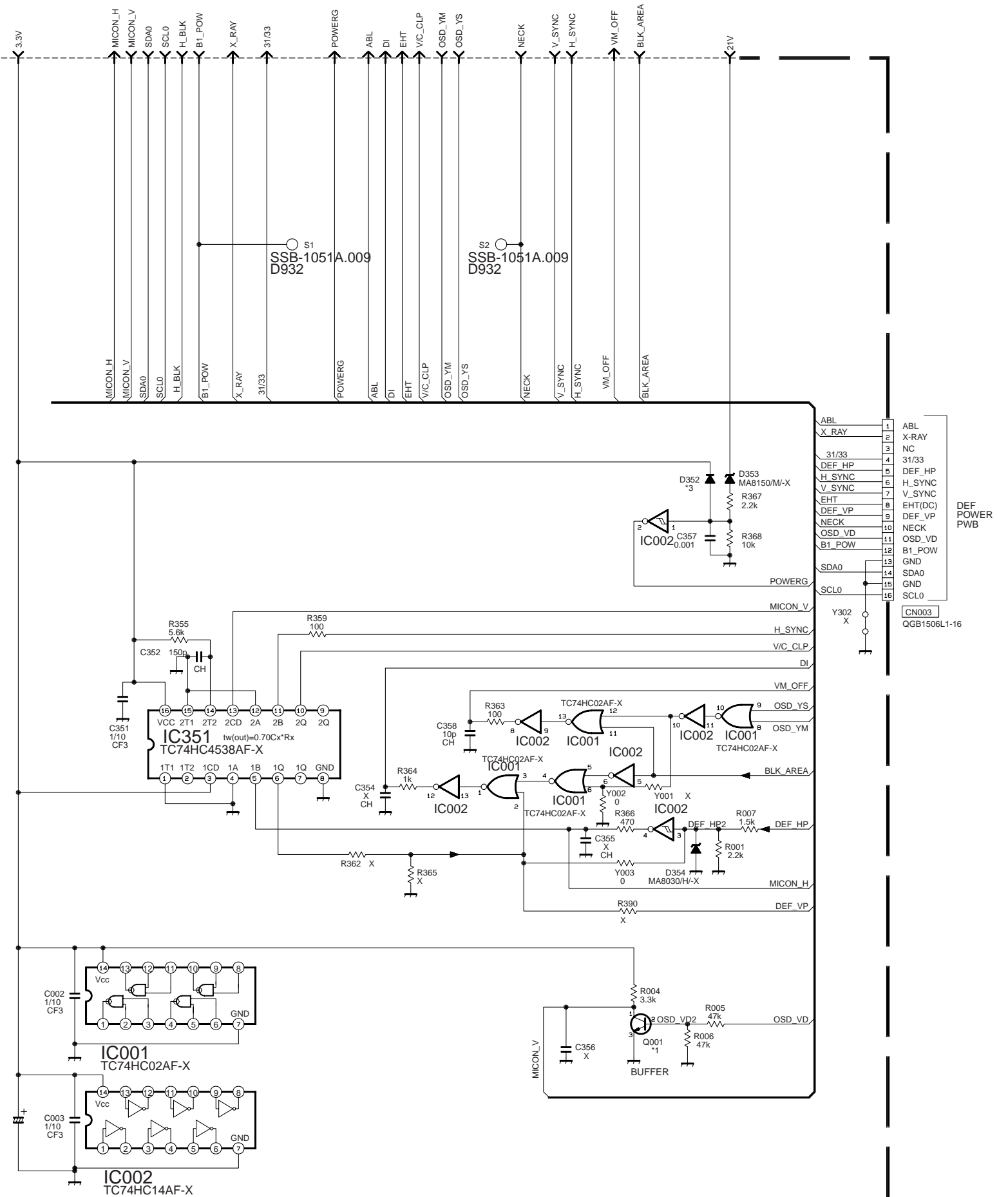
(COMPONENT SW)

SSB-1053A-M2



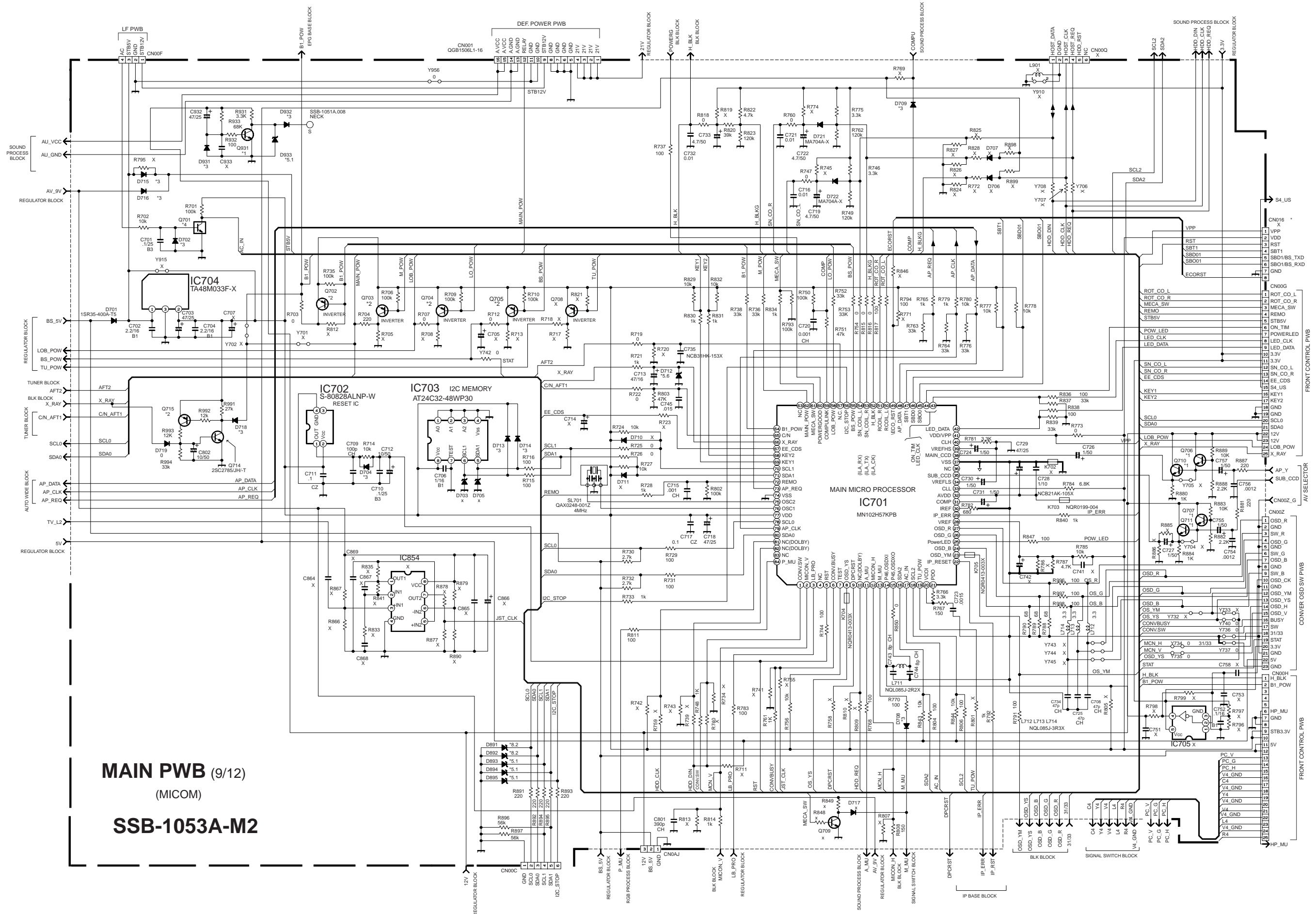
MAIN PWB CIRCUIT DIAGRAM [7/12]

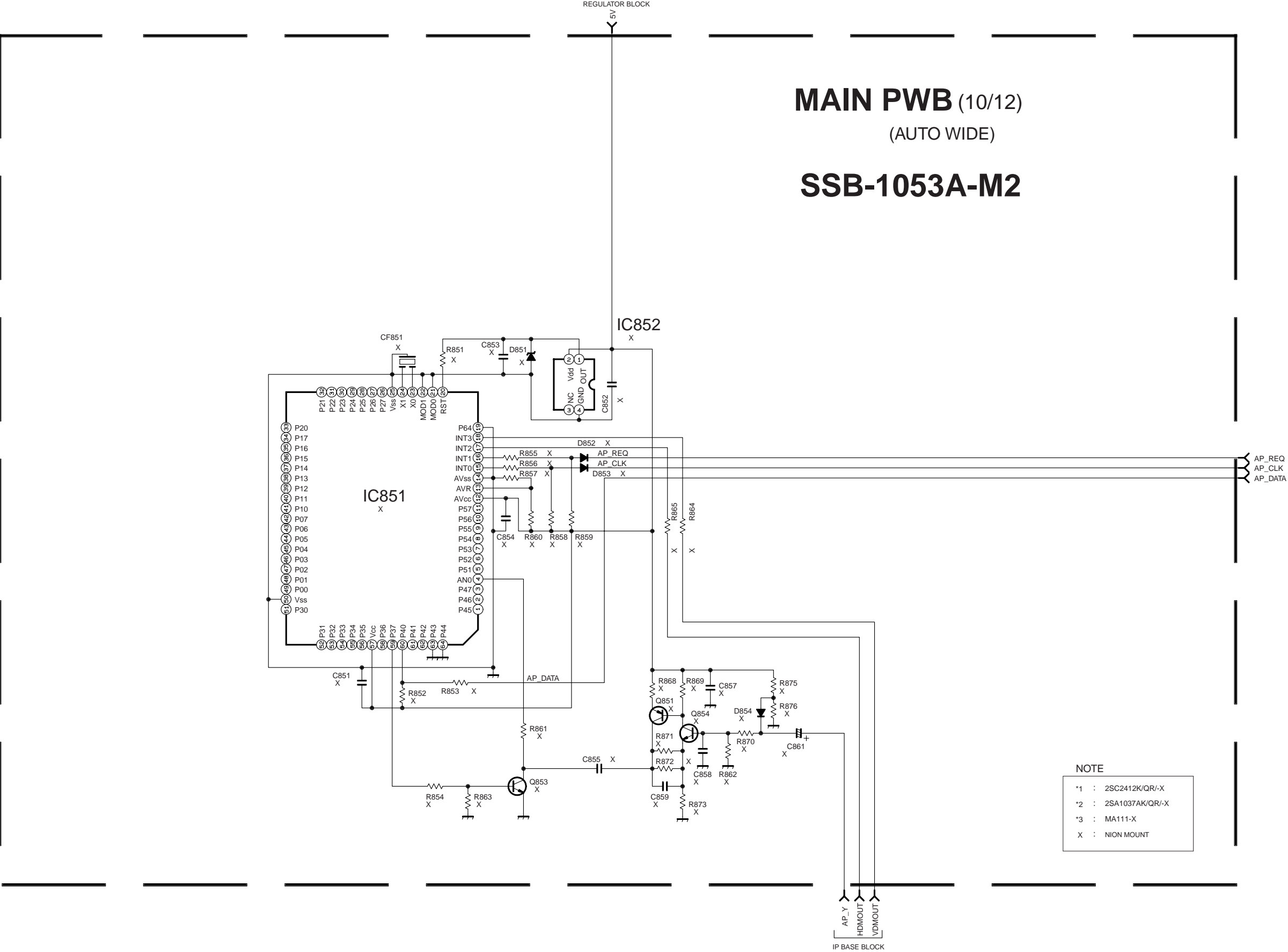




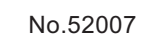
*1 : 2SC2412K/QR/-X
*2 : 2SA1037AK/QR/-X
*3 : MA111-X
X : NON MOUNT

MAIN PWB (9/12)
(MICOM)
SSB-1053A-M2

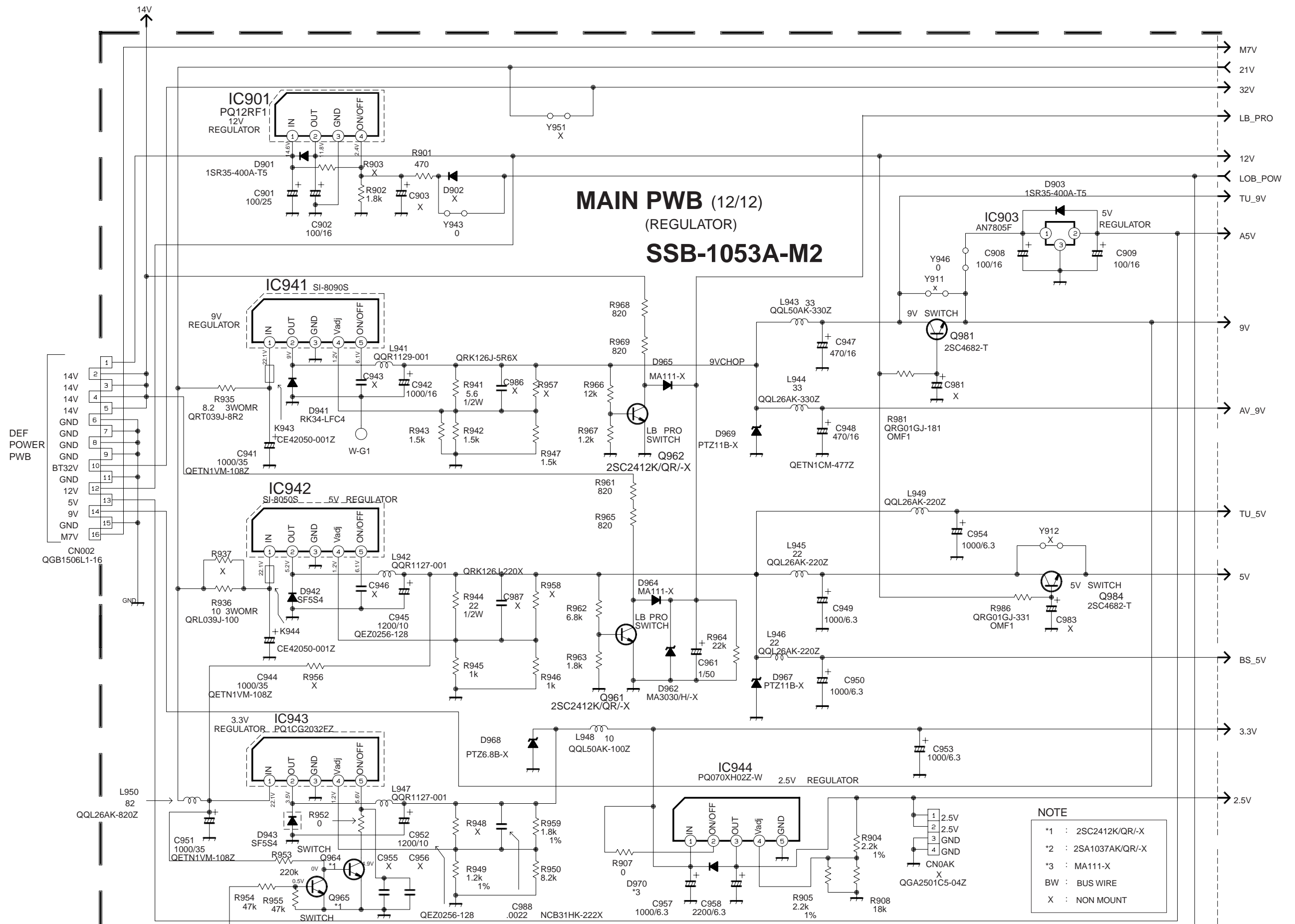




*1 : 2SC2412K/QR/-X
*2 : 2SA1037AK/QR/-X
*3 : MA111-X
*6 : MA3062/M/-X
X : NON MOUNT
BW : BUS WIRE



MAIN PWB CIRCUIT DIAGRAM [12/12]



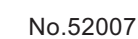
RECEIVER PWB (1/2)
(TUNER/MTS/BBE)
SSB0R253A-M2



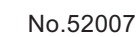
CENTER SPEAKER PWB
SSB0A053A-M2

RECEIVER PWB (2/2)
SSB0R253A-M2

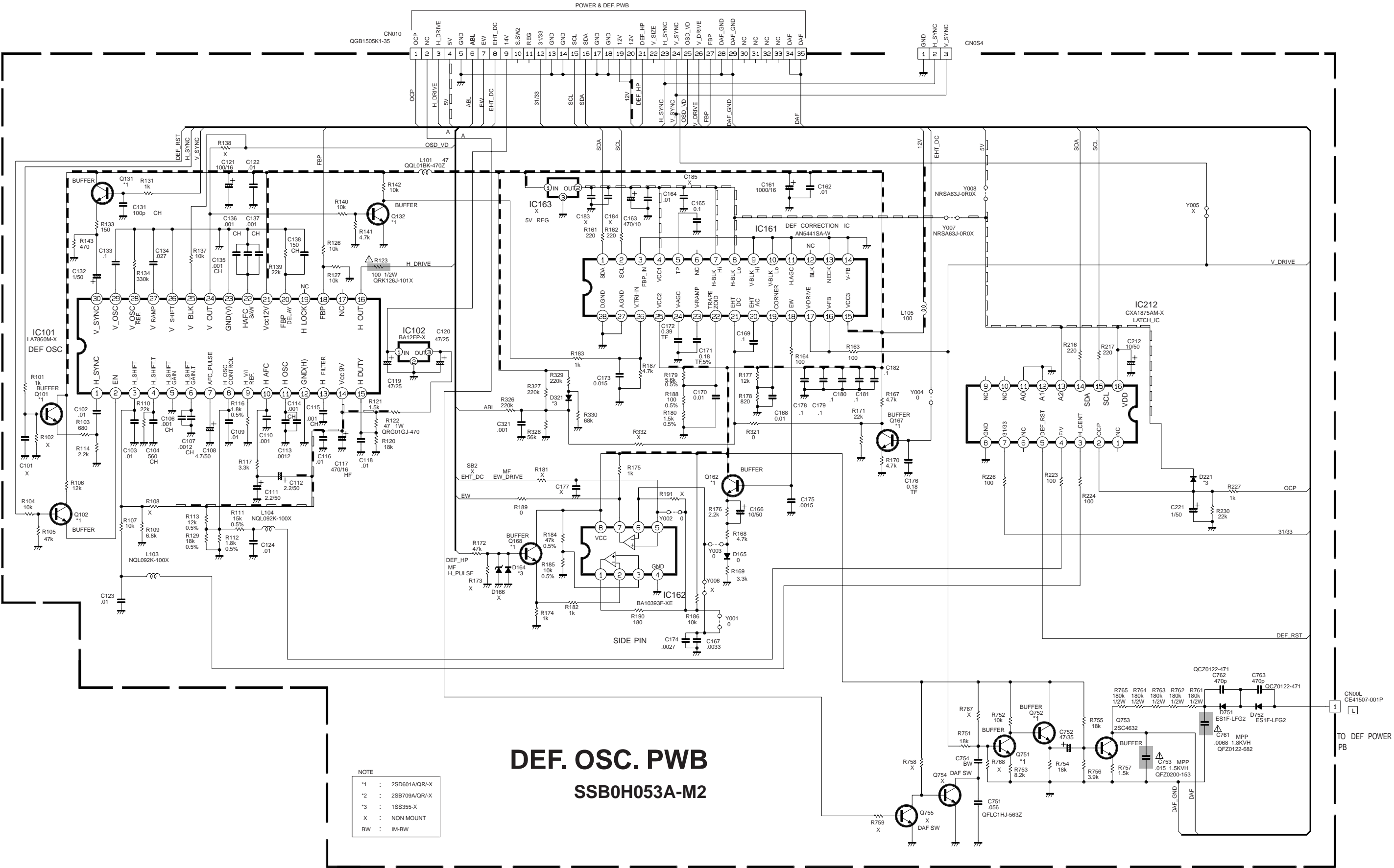
TO SPEAKER



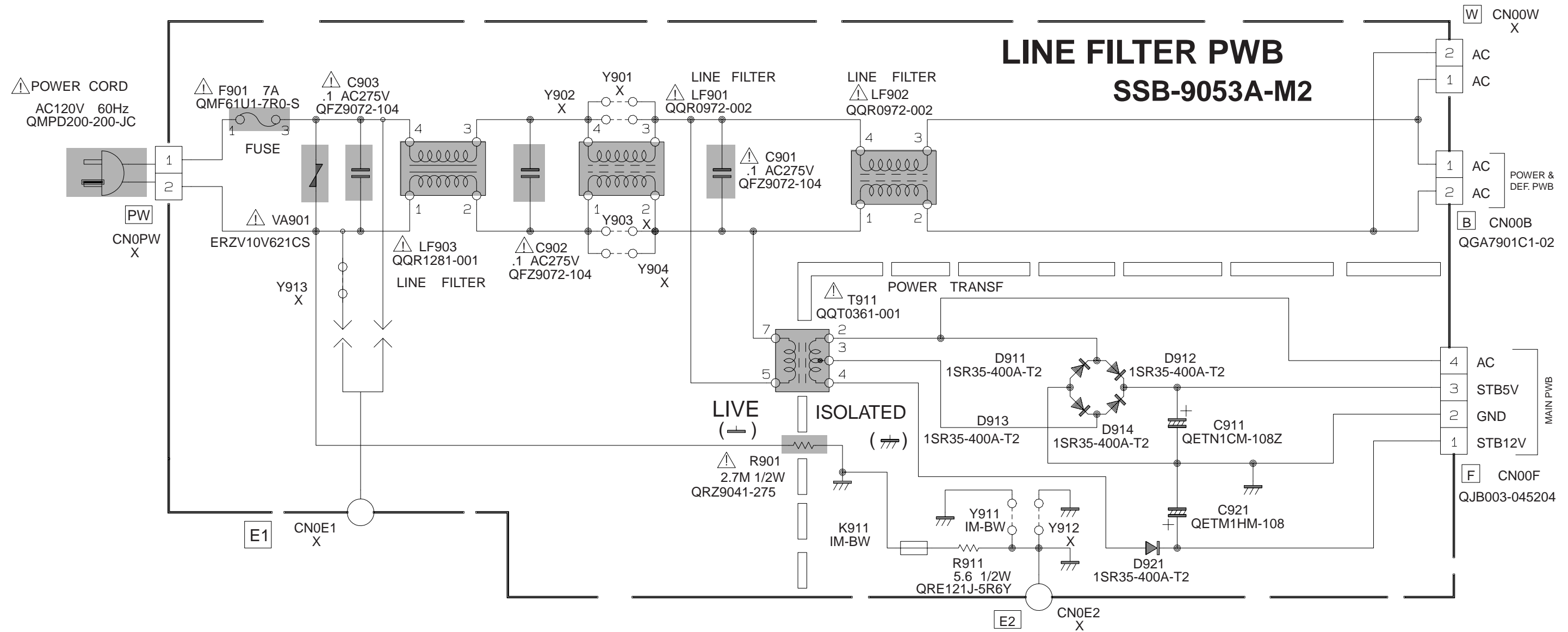
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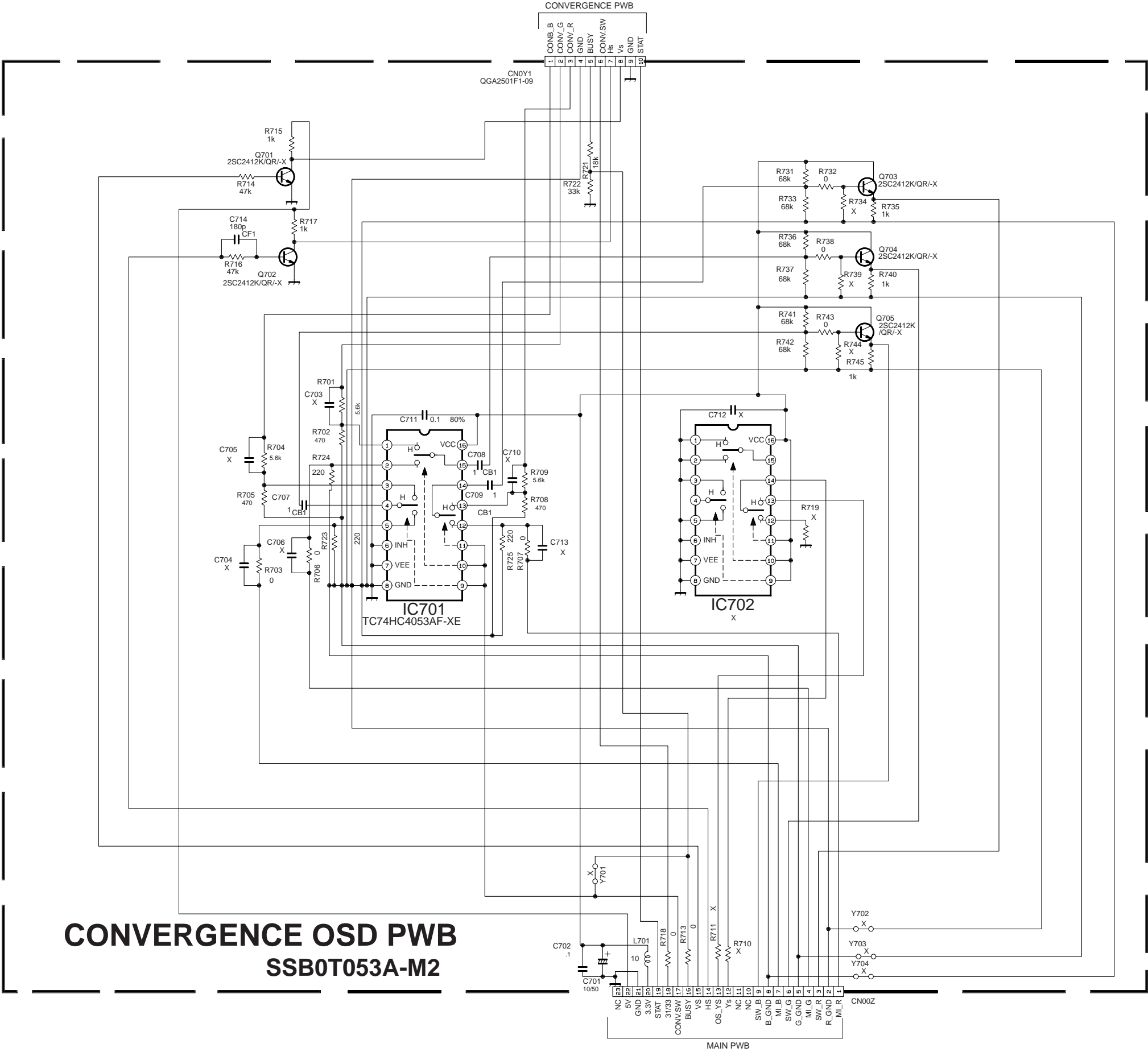
DEF OSC PWB CIRCUIT DIAGRAM



LINE FILTER PWB CIRCUIT DIAGRAM

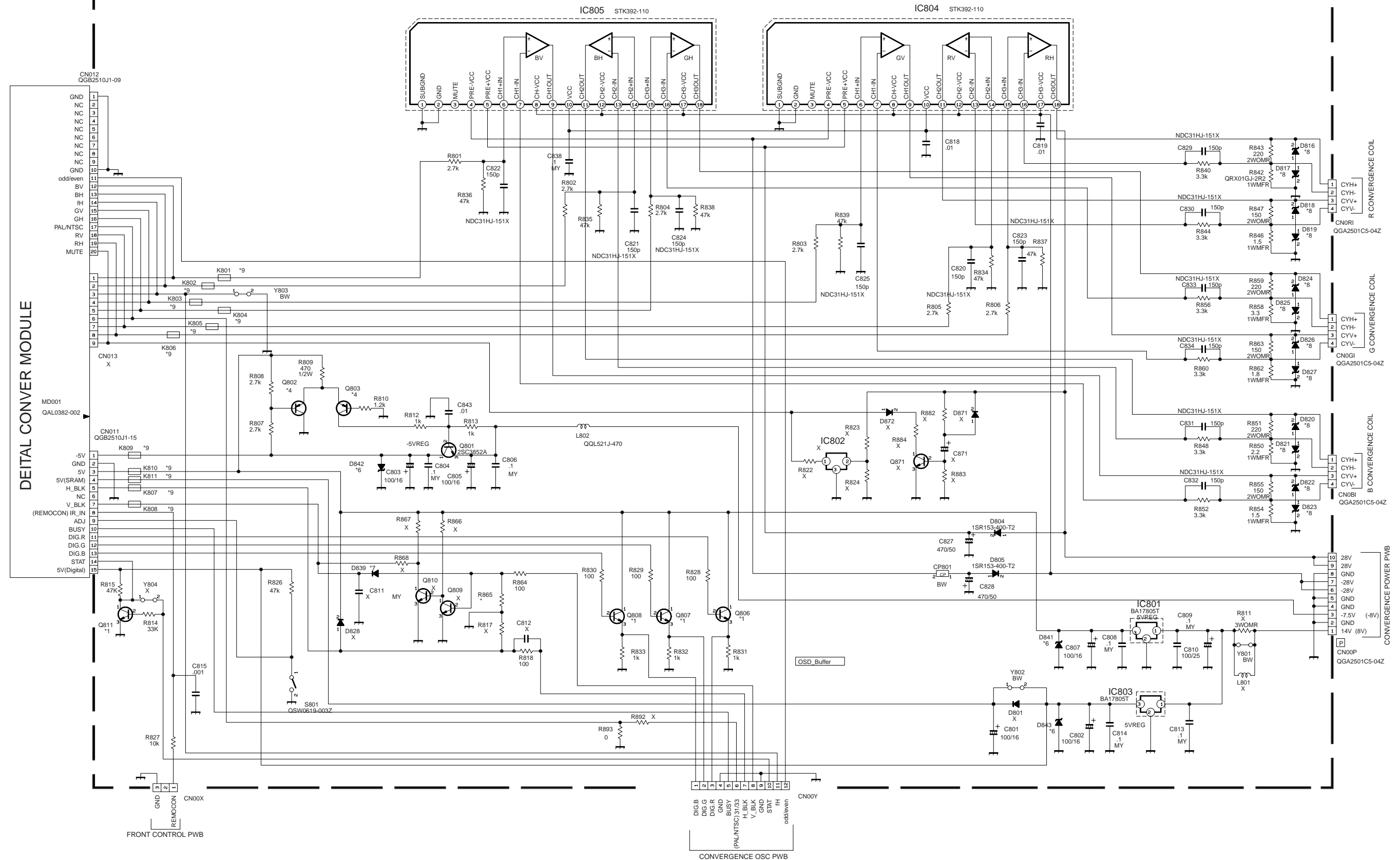


CONVERGENCE OSD PWB CIRCUIT DIAGRAM

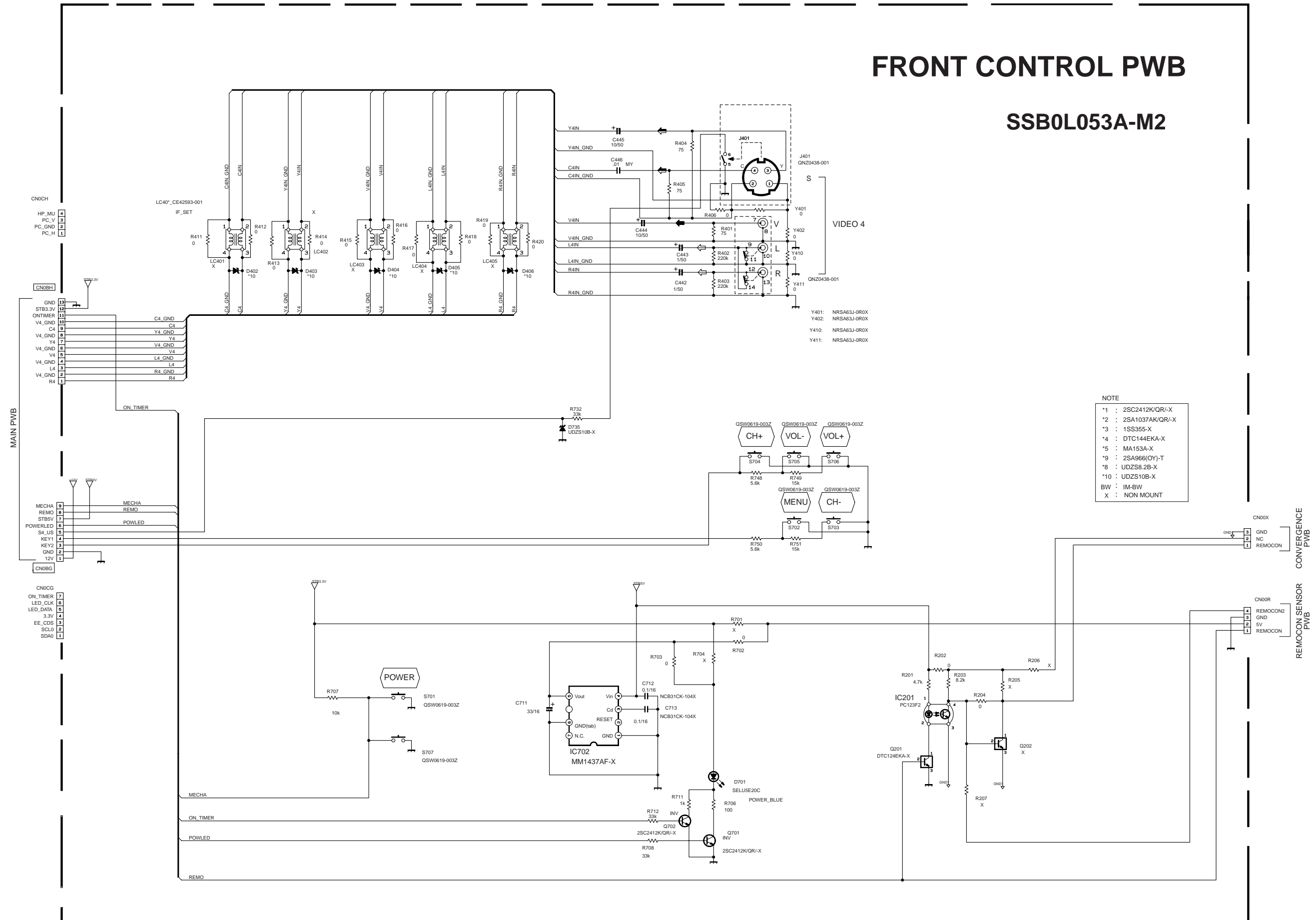


CONVERGENCE PWB

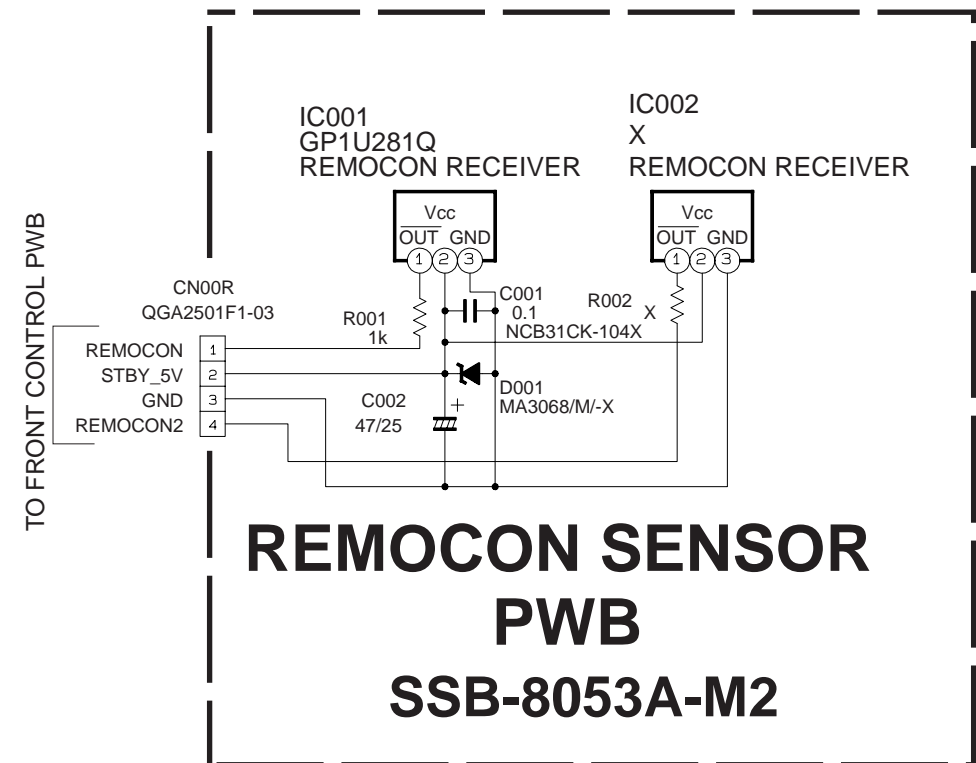
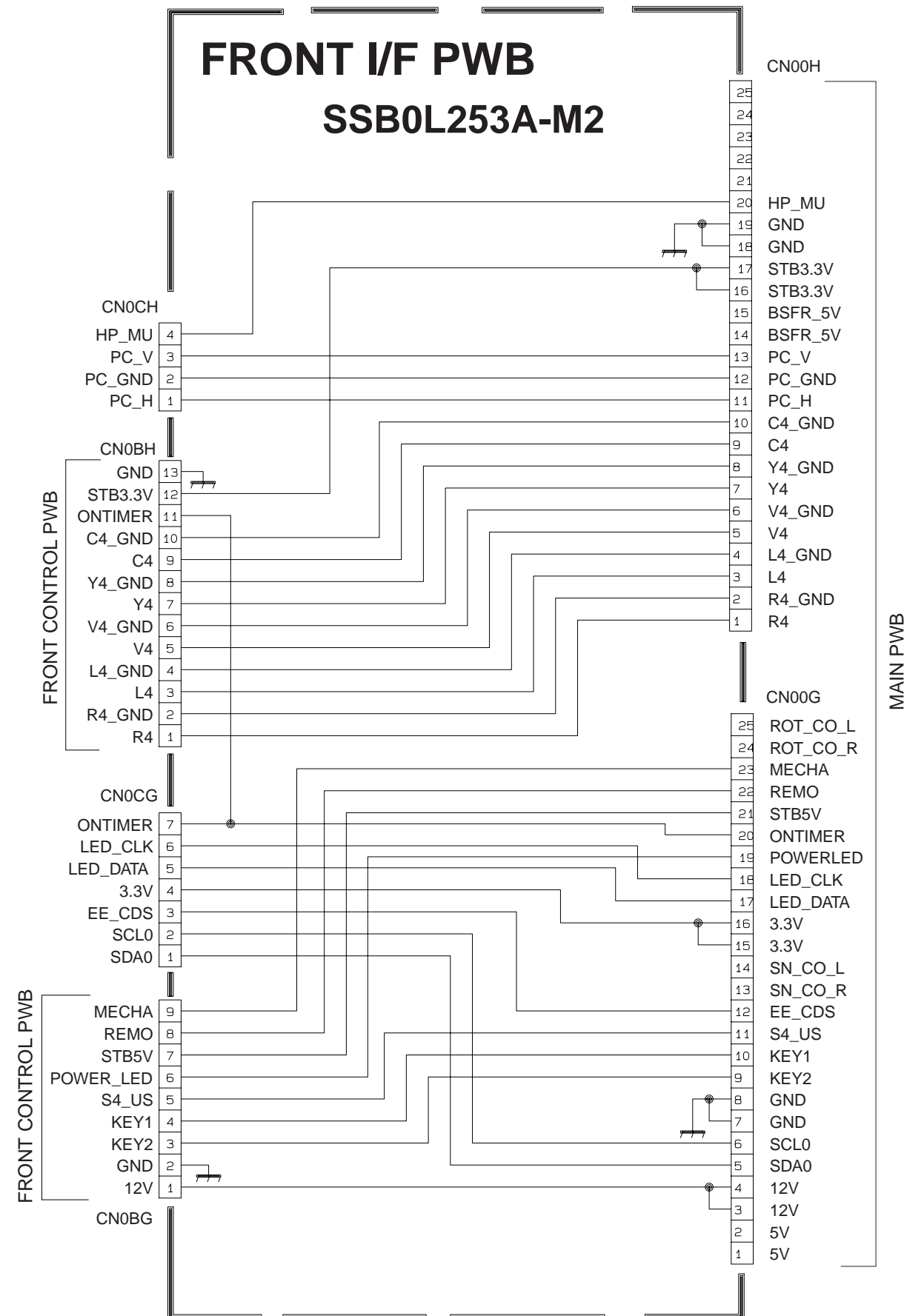
SSB-5053A-M2



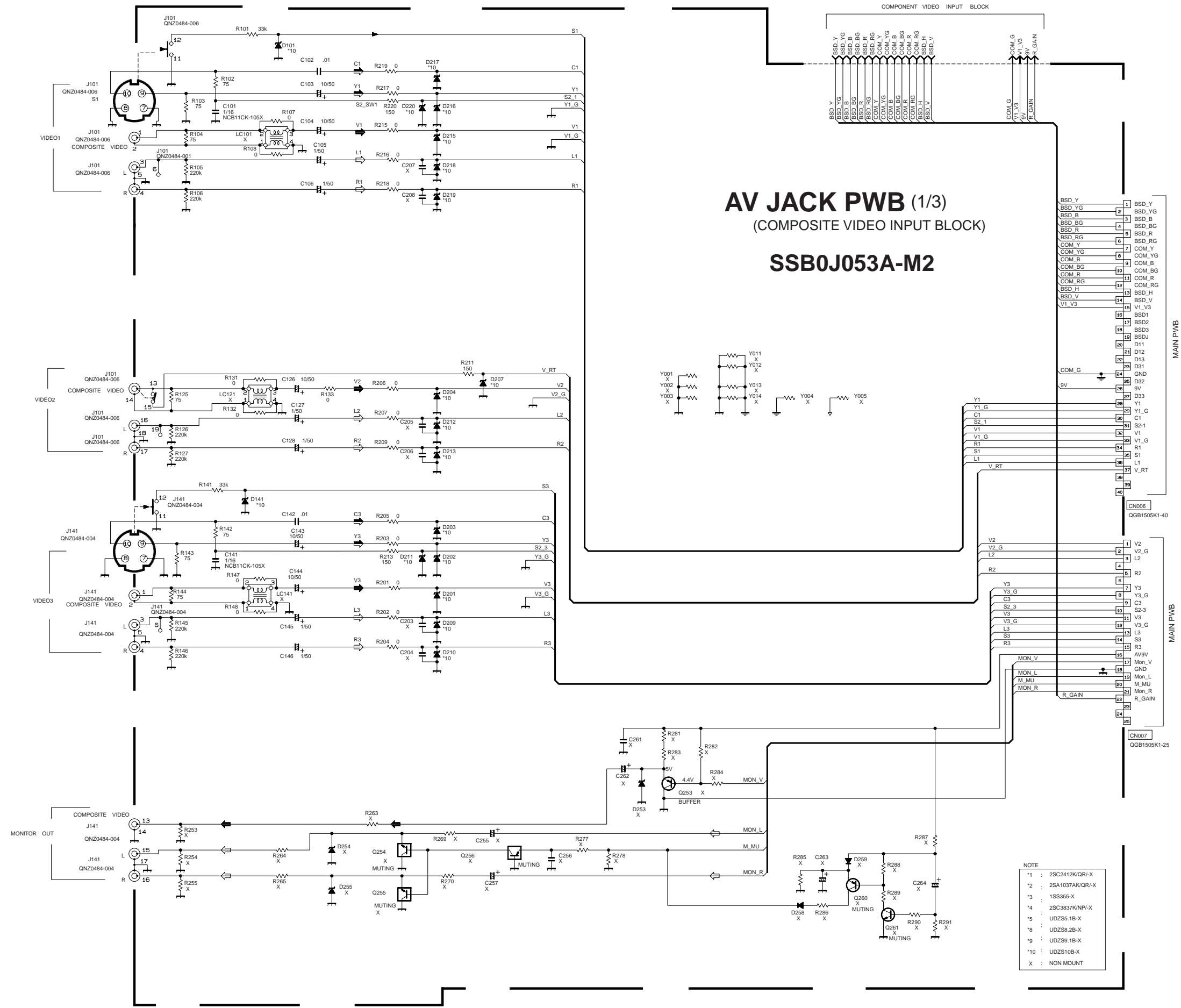
SSB0L053A-M2



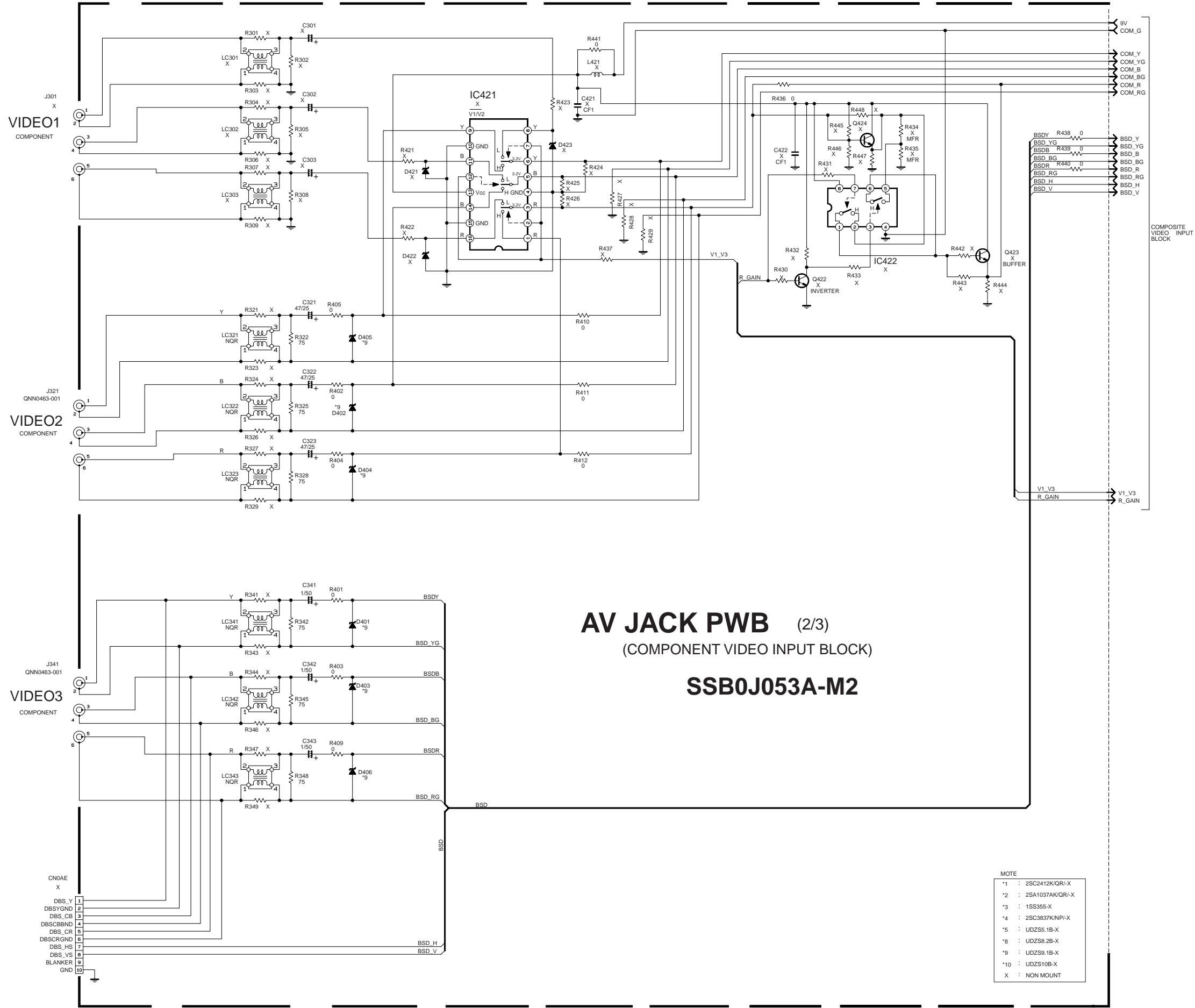
TO FRONT CONTROL PWB



AV JACK PWB CIRCUIT DIAGRAM [1/3]



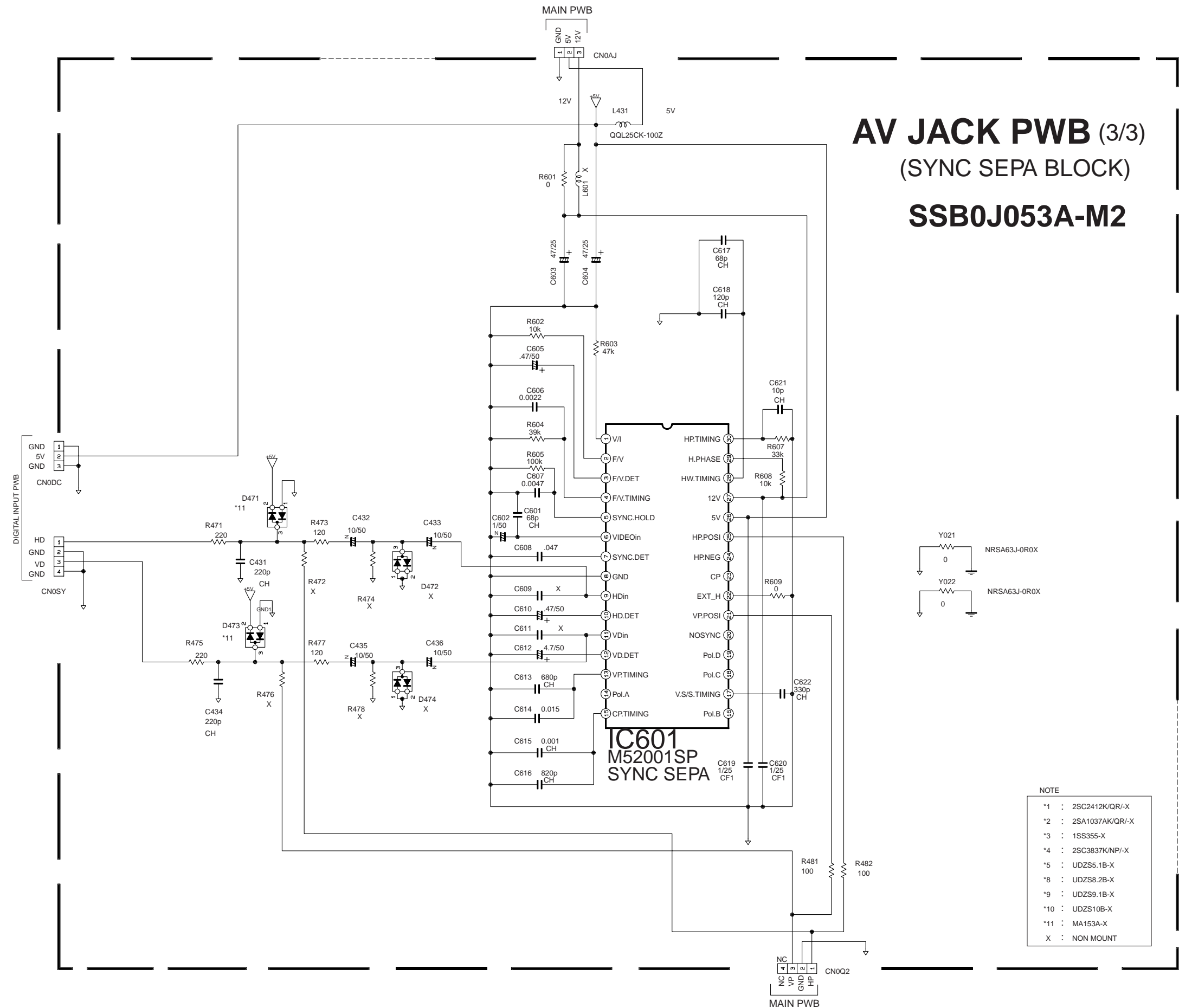
AV JACK PWB CIRCUIT DIAGRAM [2/3]



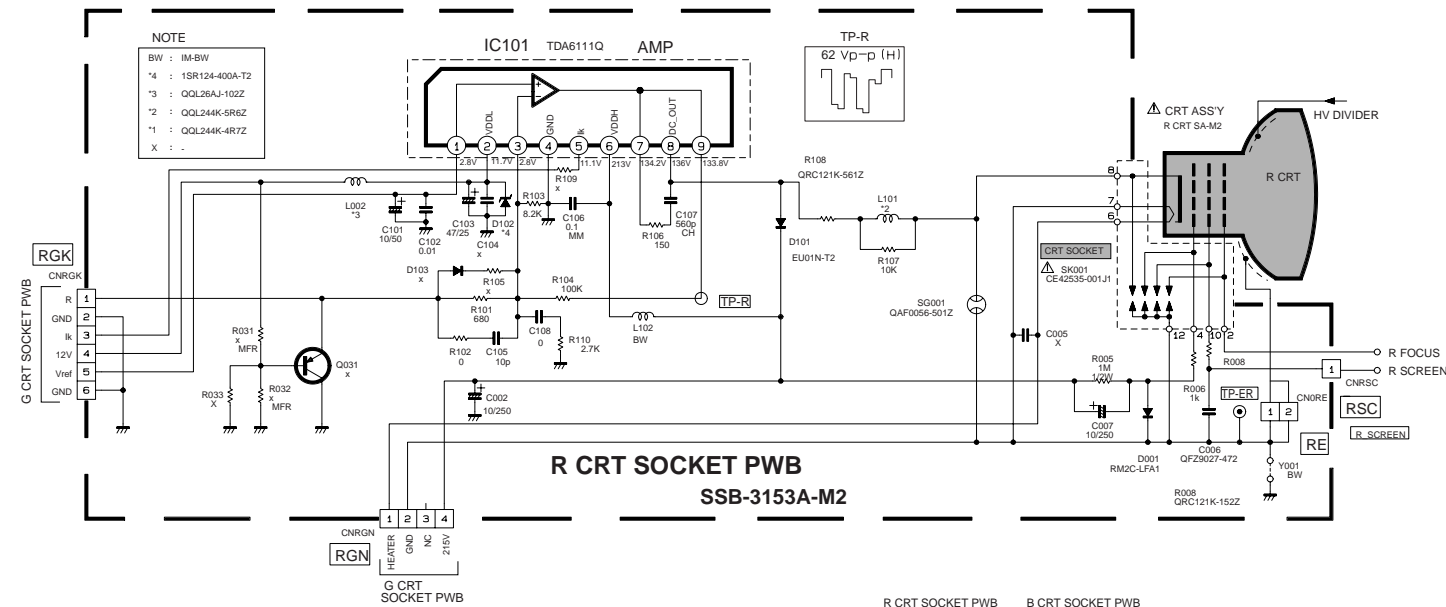
AV JACK PWB (2/3)
(COMPONENT VIDEO INPUT BLOCK)
SSB0J053A-M2

MOTE

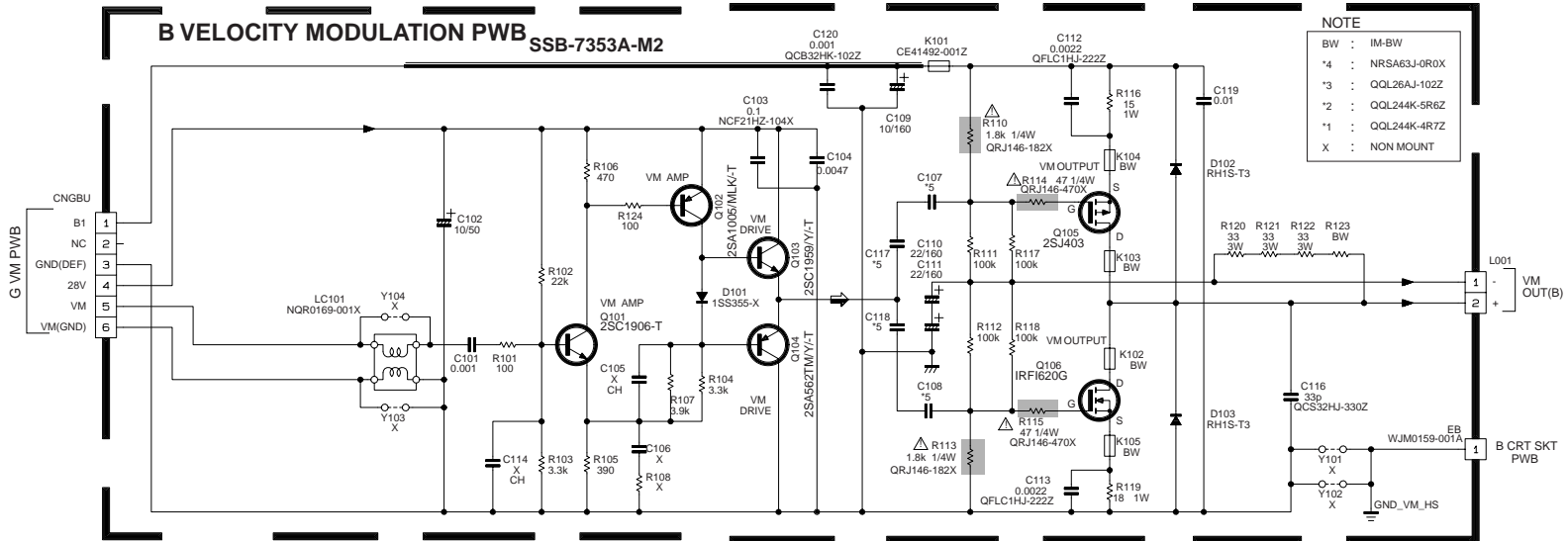
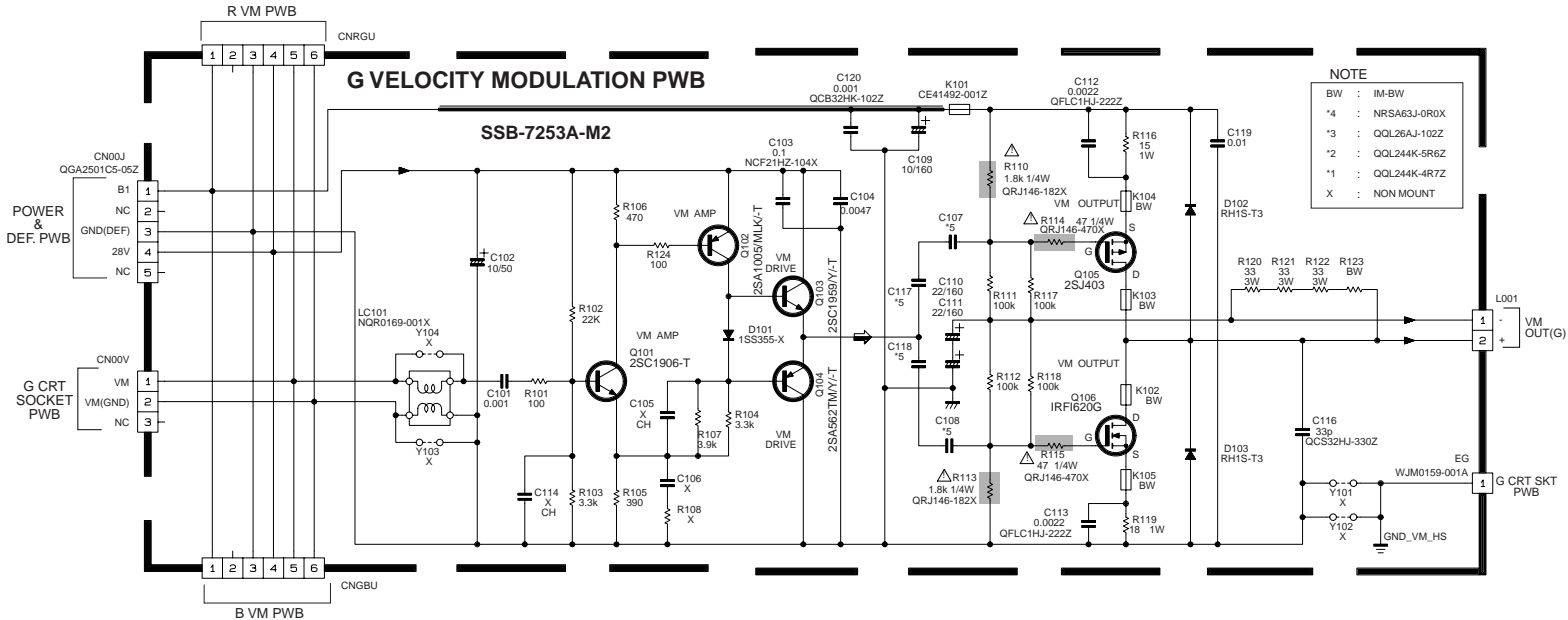
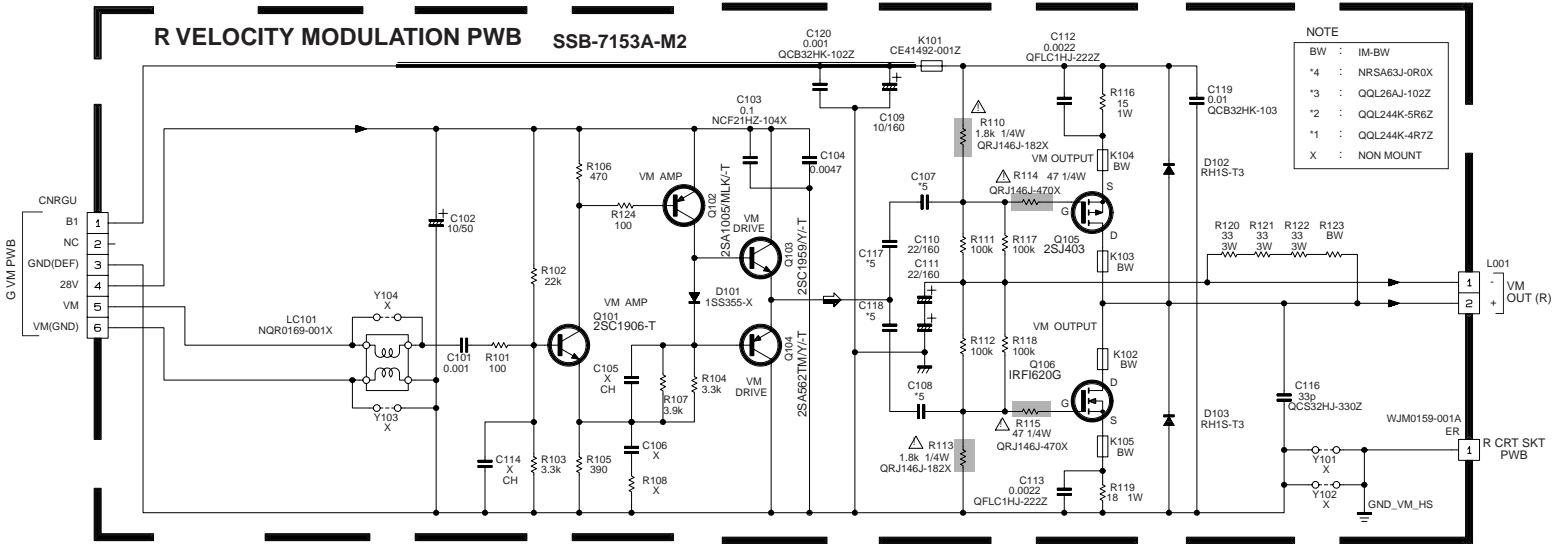
*1	: 2SC2412K/QR/-X
*2	: 2SA1037AK/QR/-X
*3	: 1SS355-X
*4	: 2SC3837K/NP/-X
*5	: UDZS5.1B-X
*8	: UDZS8.2B-X
*9	: UDZS9.1B-X
*10	: UDZS10B-X
X	: NON MOUNT



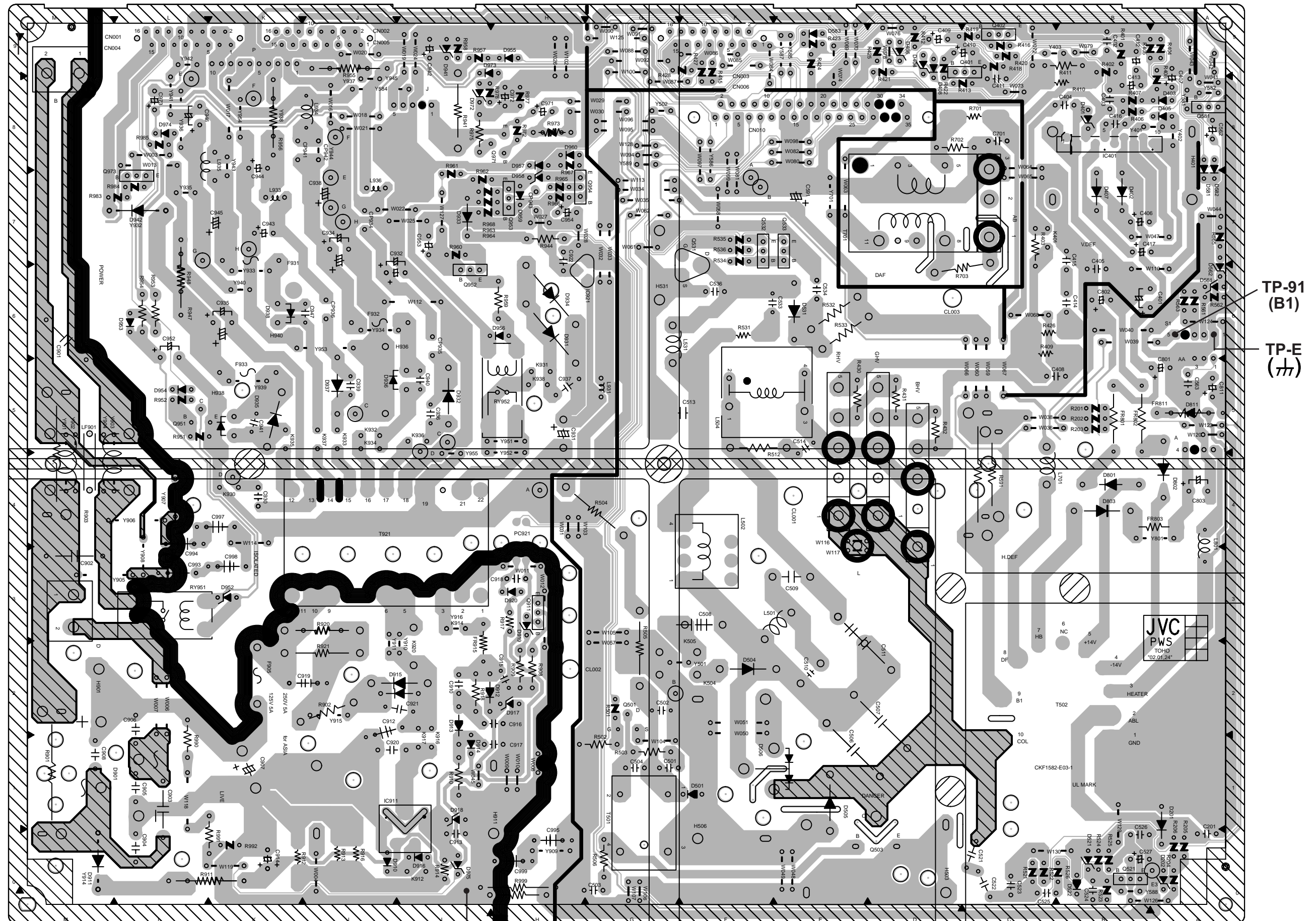
R/G/B CRT SOCKET PWB CIRCUIT DIAGRAM



R/G/B VM PWB CIRCUIT DIAGRAM

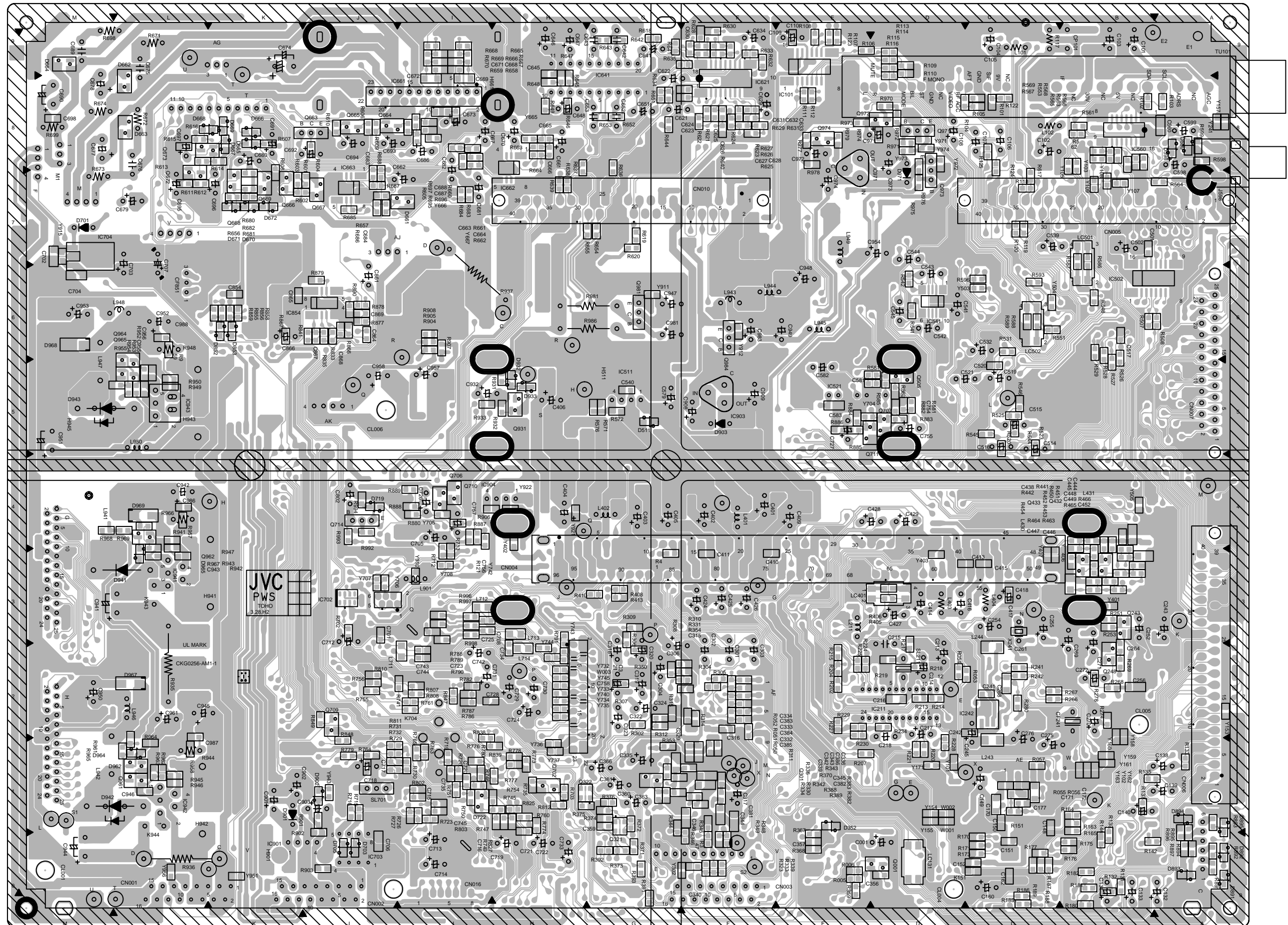


PATTERN DIAGRAMS POWER & DEF. PWB PATTERN

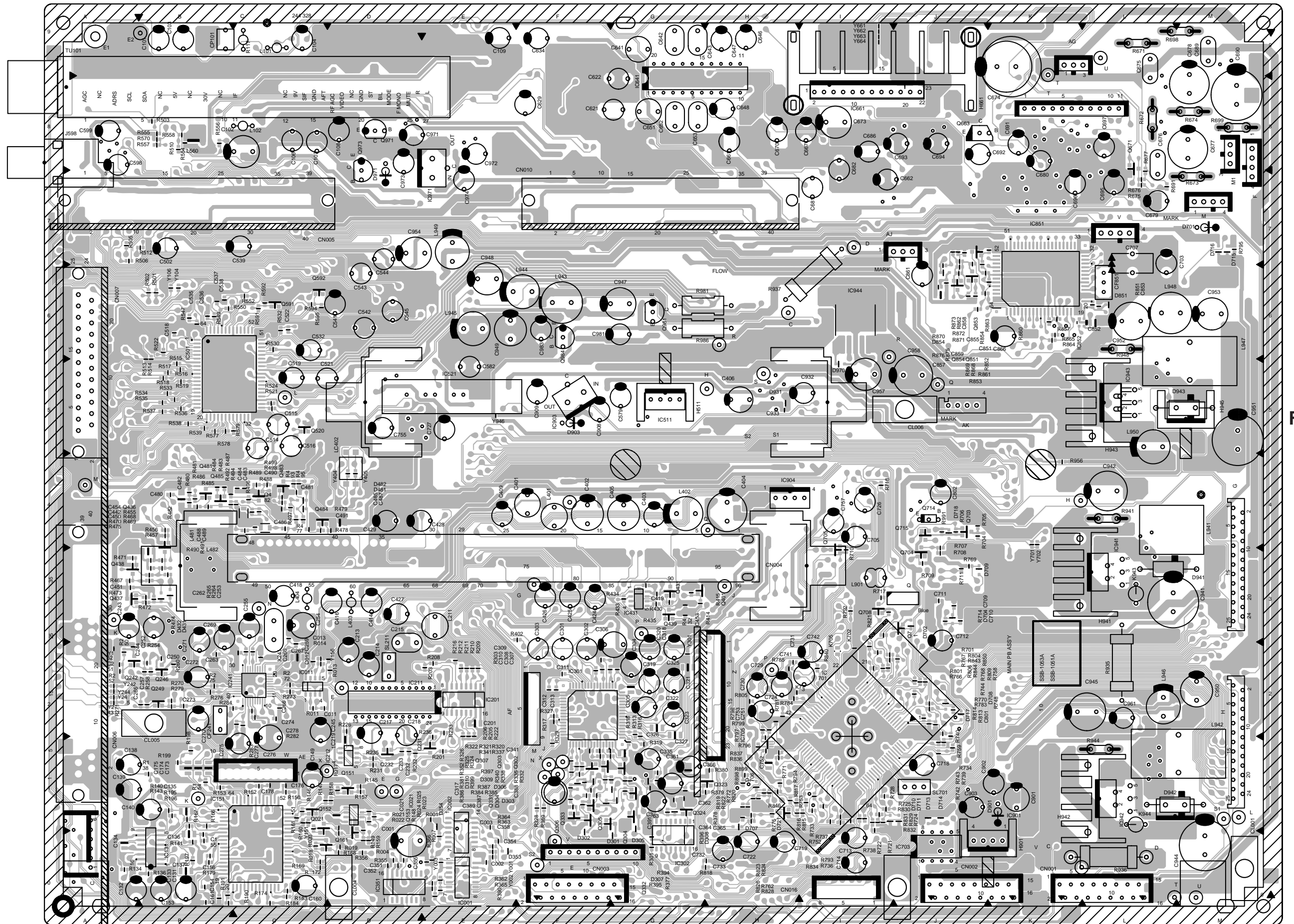
FRONT
↑

MAIN PWB PATTERN [SOLDER SIDE]

FRONT



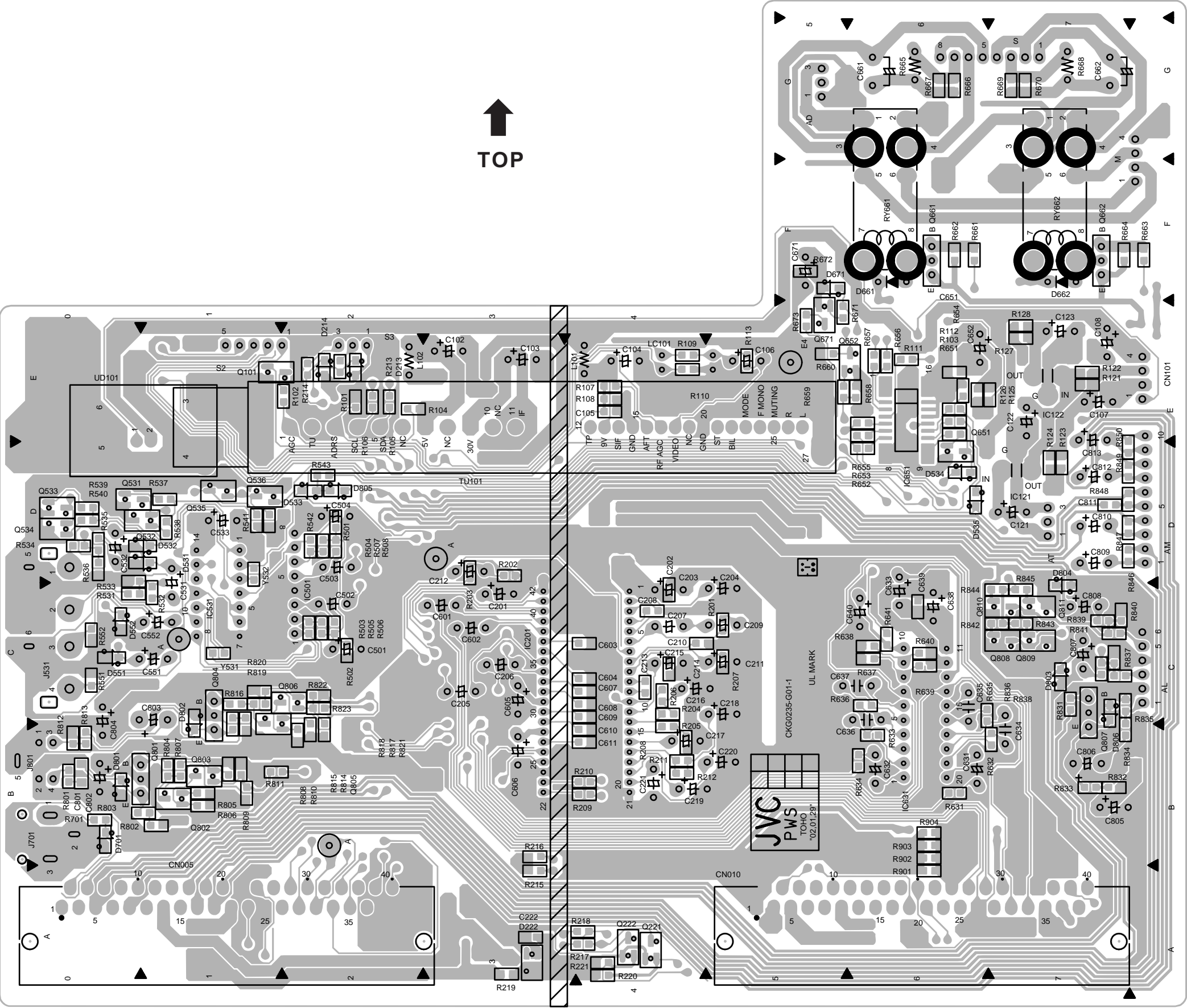
MAIN PWB PATTERN [PARTS SIDE]



FRONT

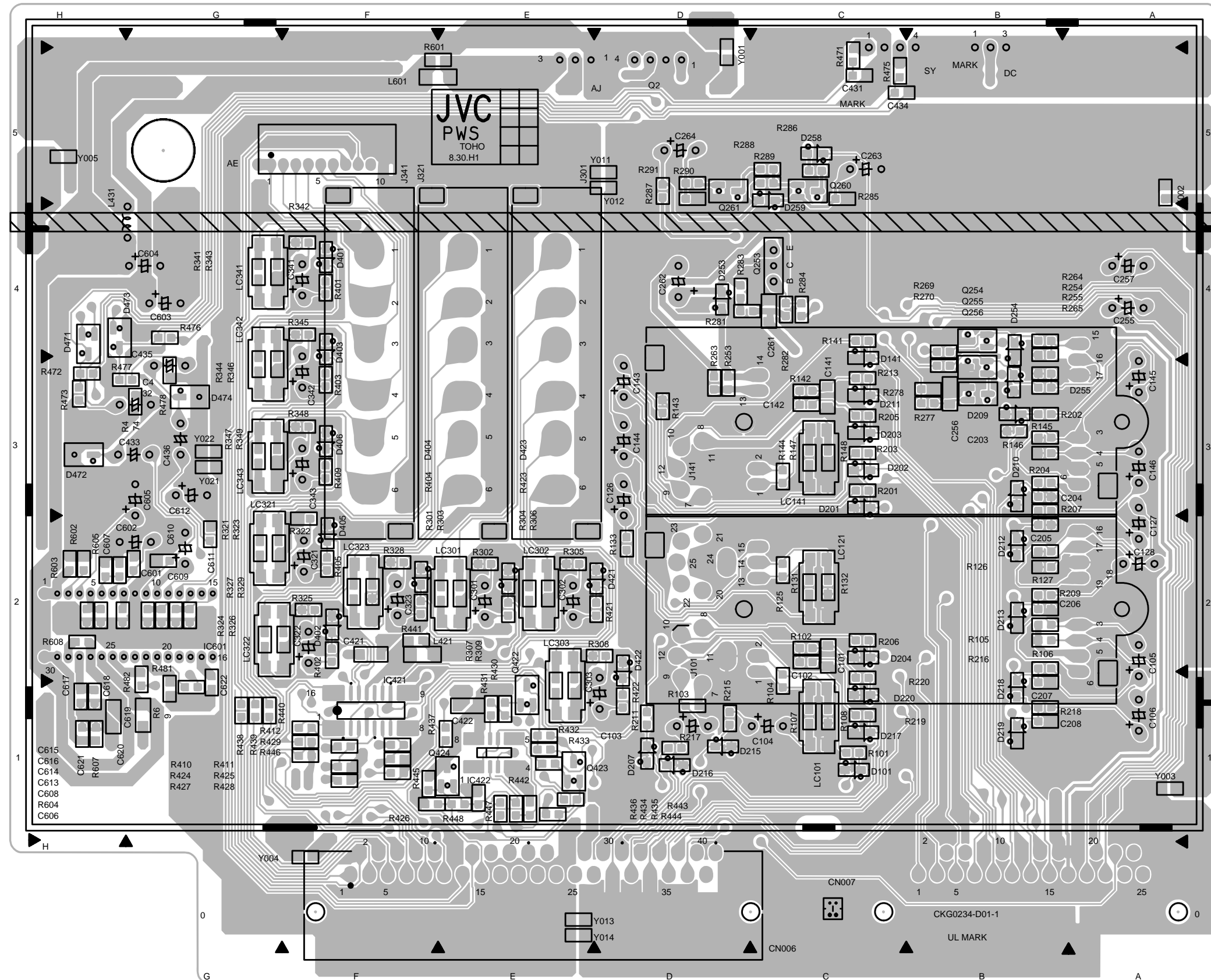


RECEIVER PWB PATTERN



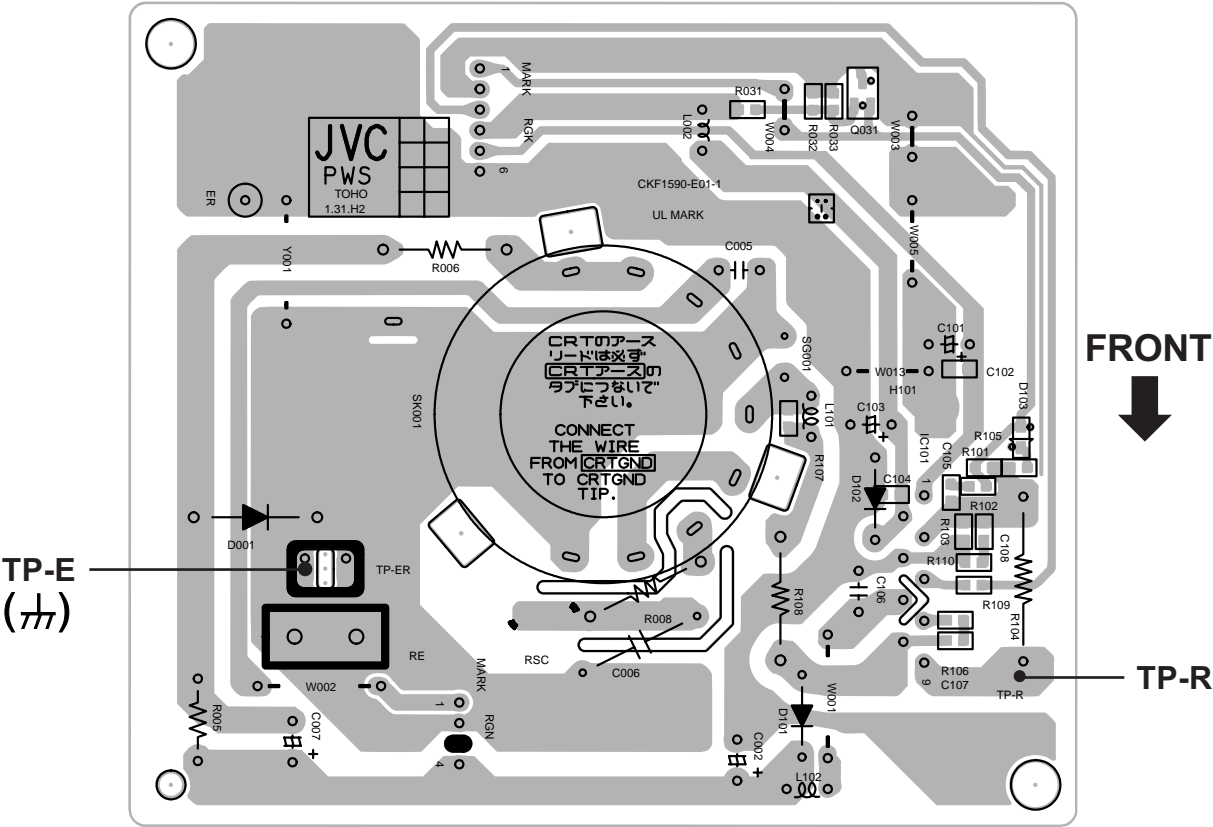
AV JACK PWB PATTERN

↑
TOP

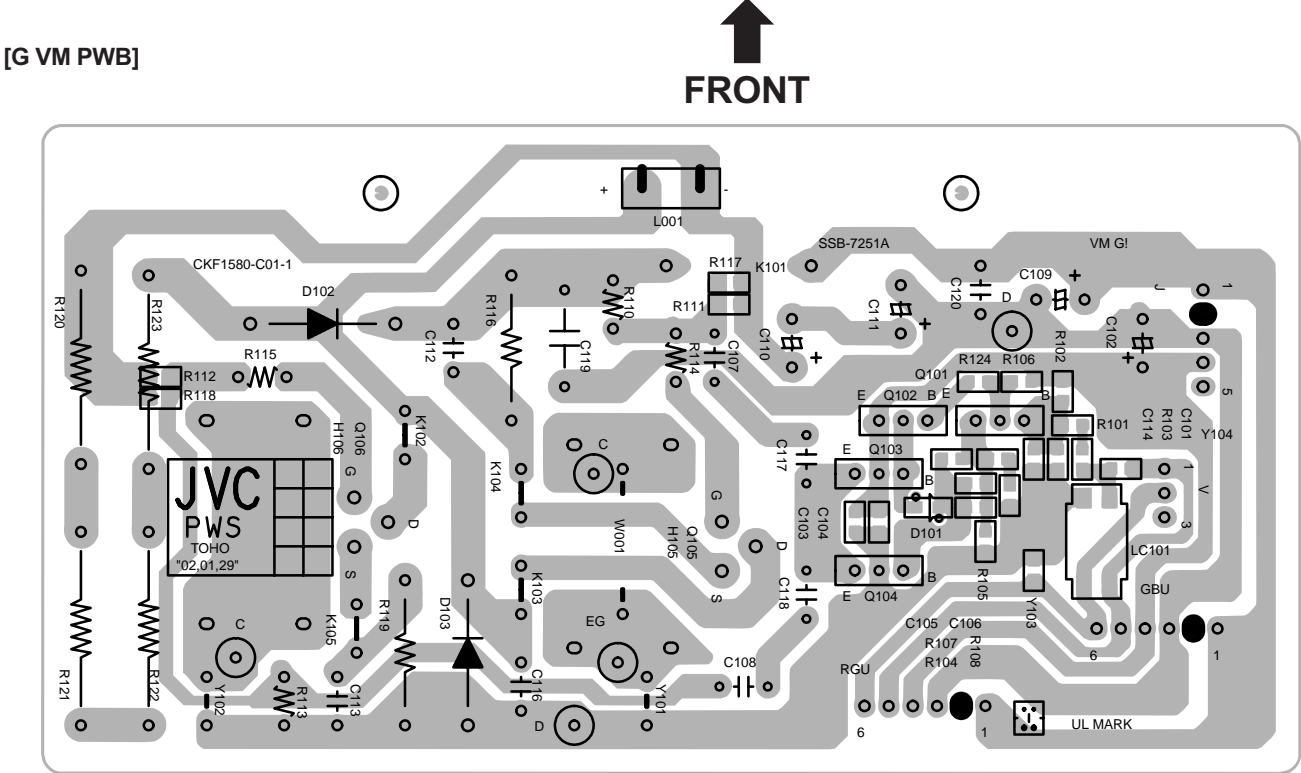
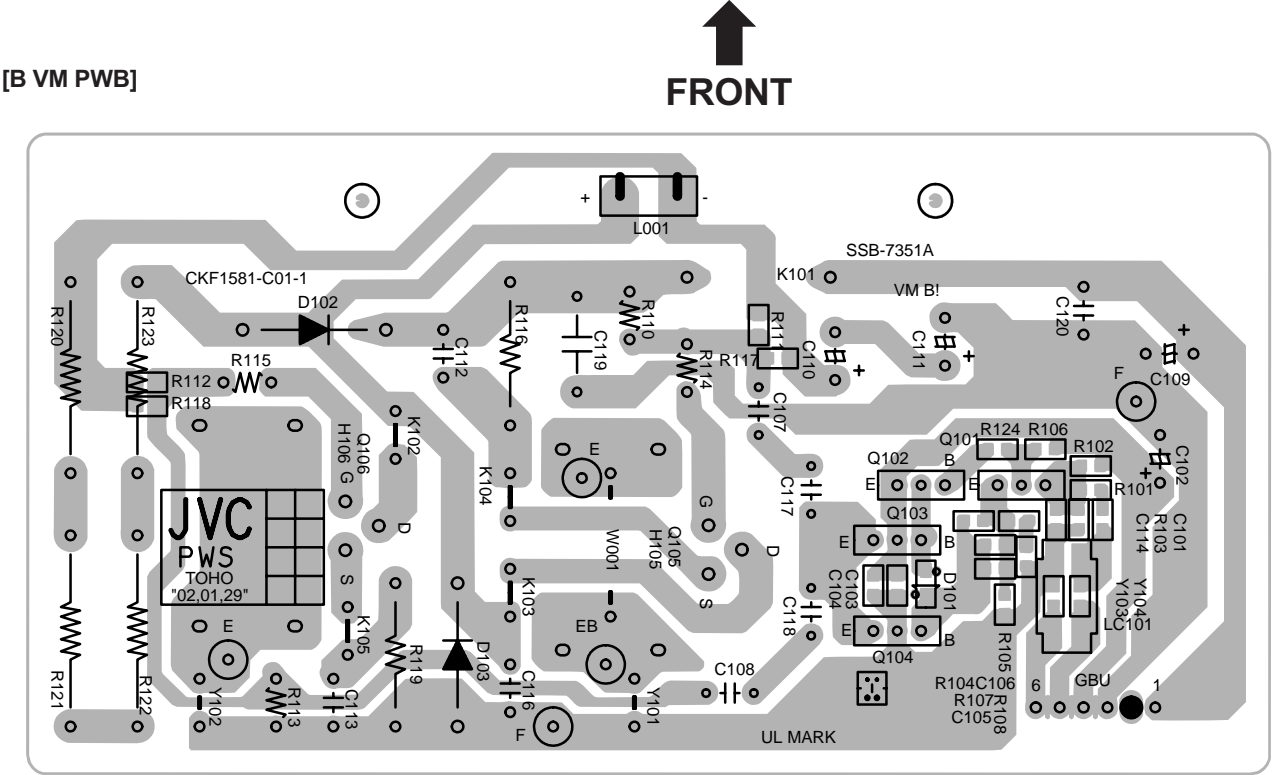
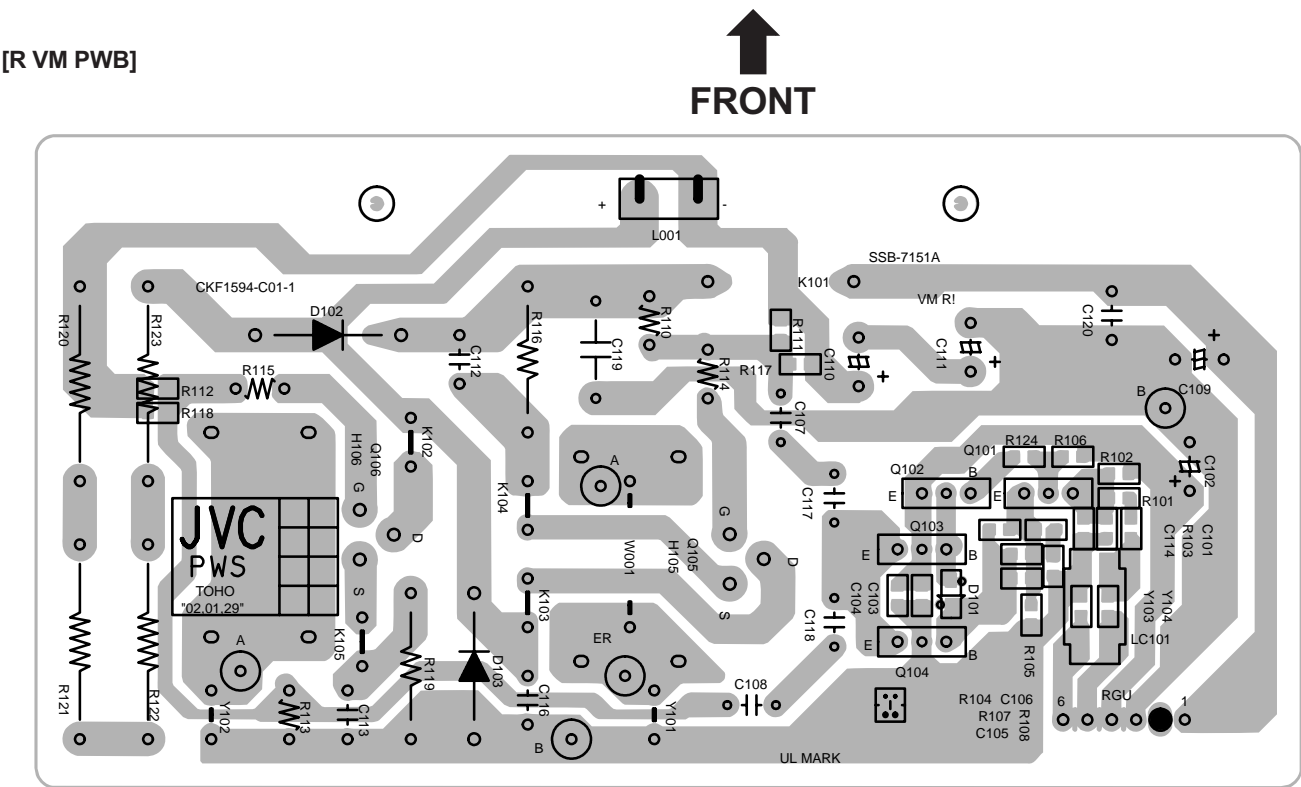


R/G/B CRT SOCKET PWB PATTERN

[R CRT SOCKET PWB]



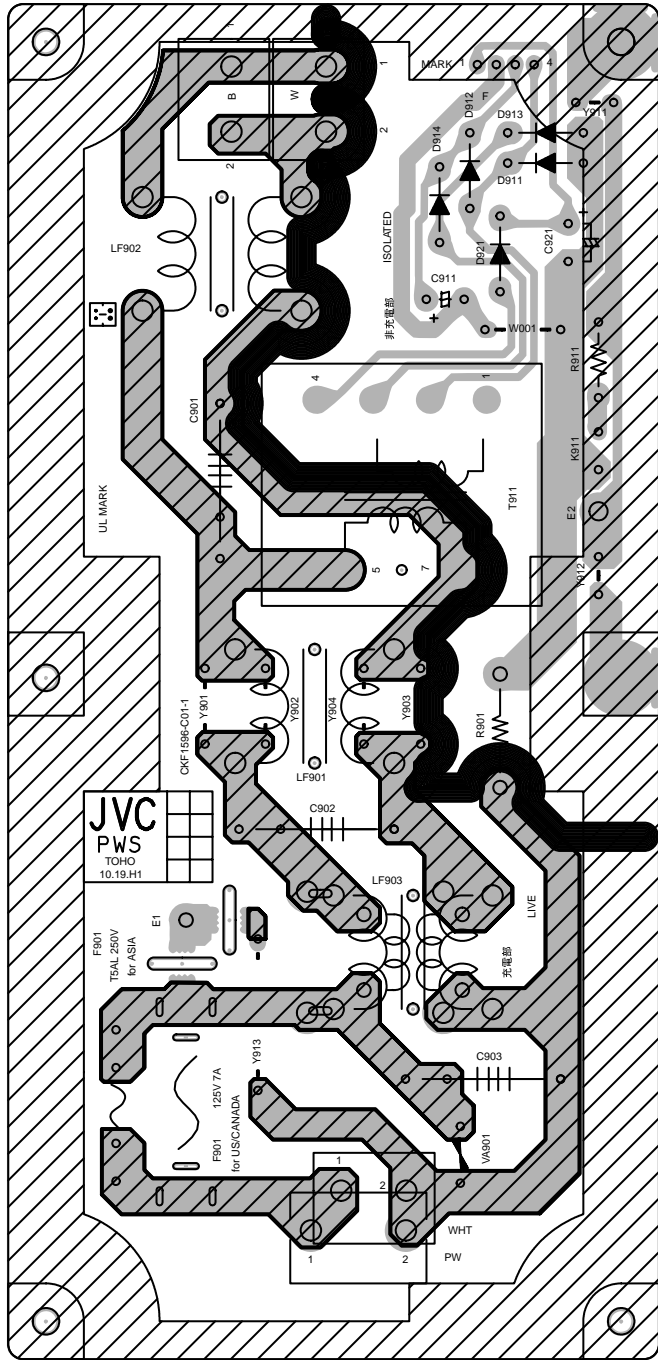
R/G/B VM PWB PATTERN



LINE FILTER PWB PATTERN



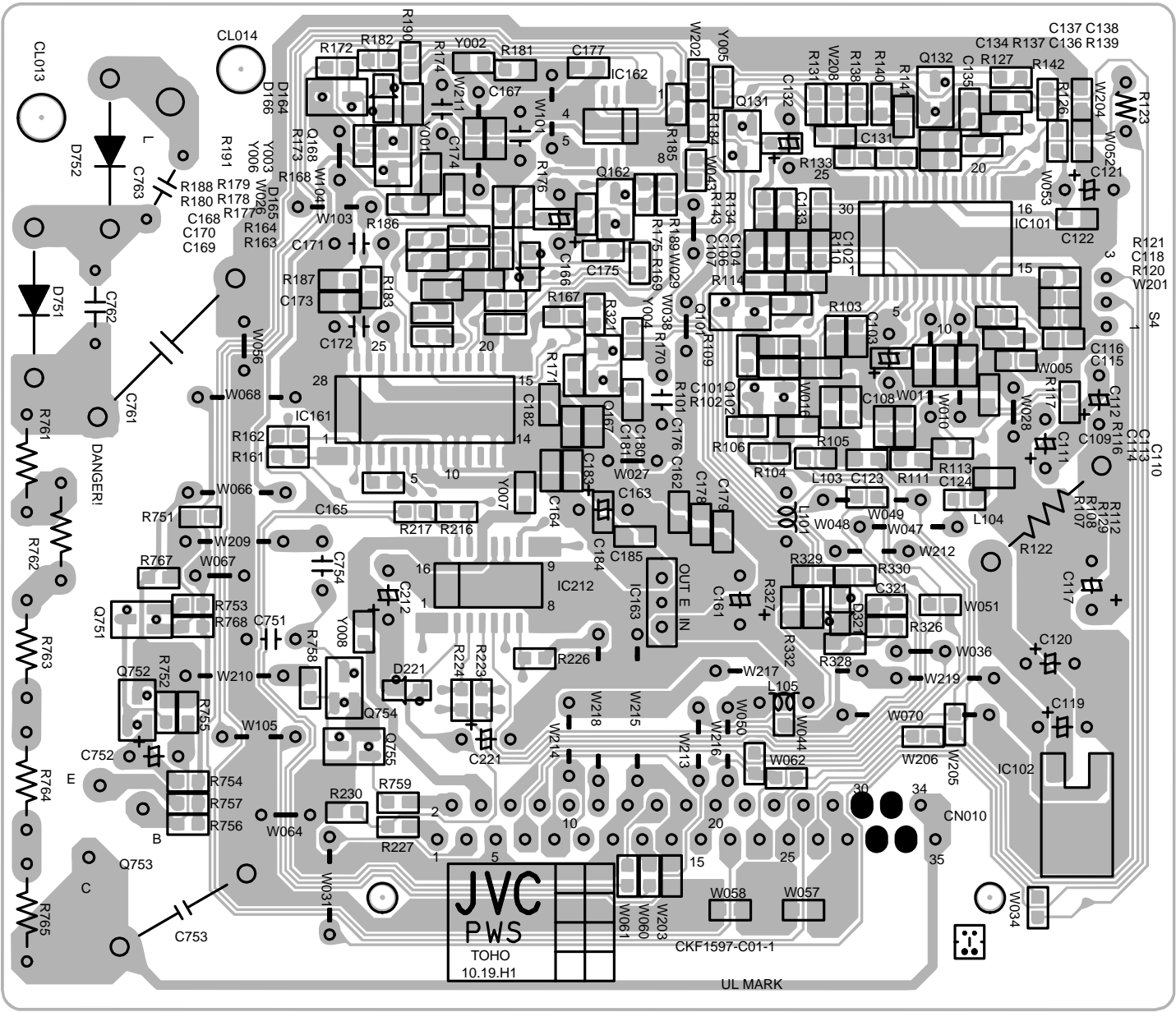
TOP



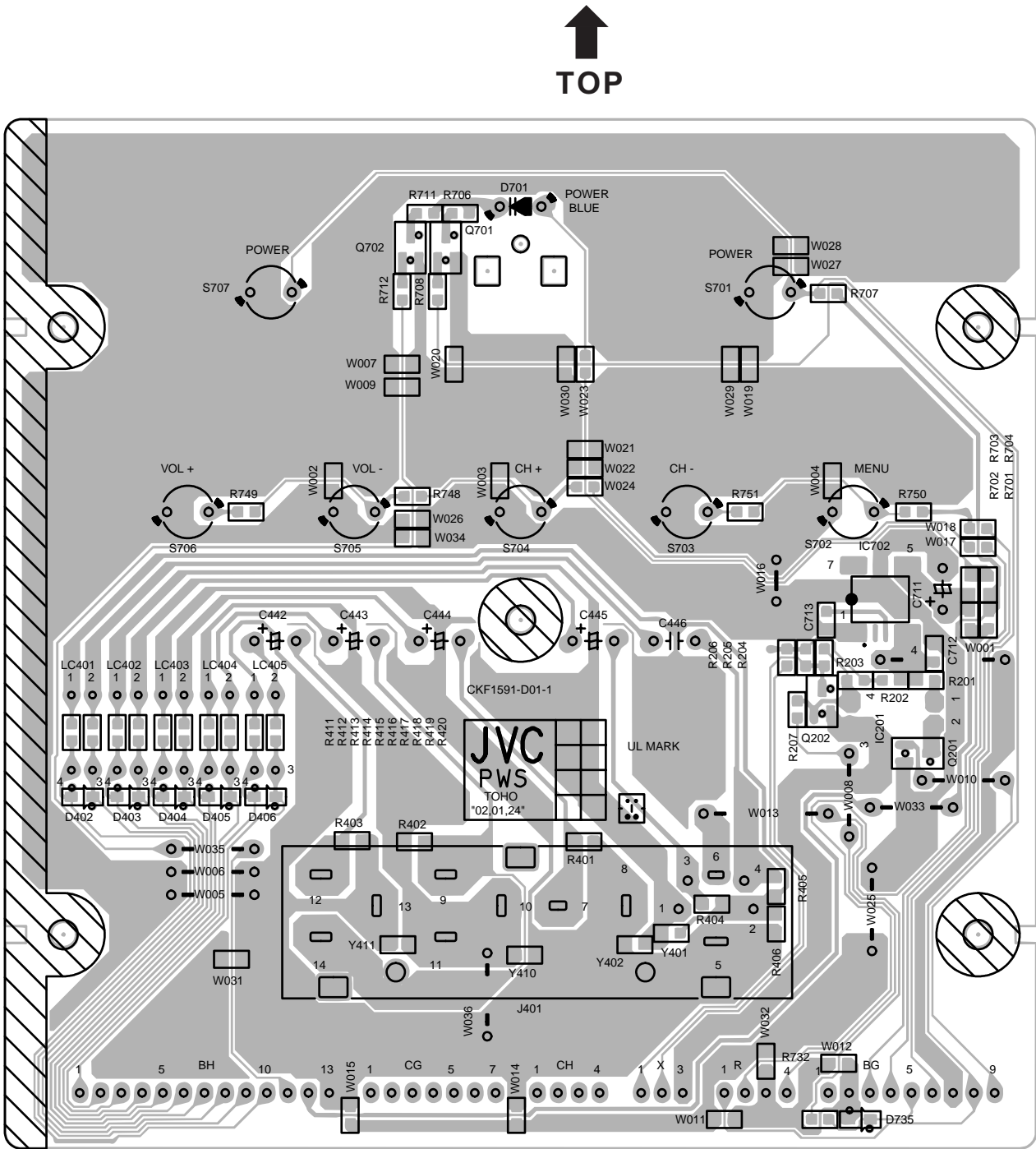
DEF OSC PWB PATTERN



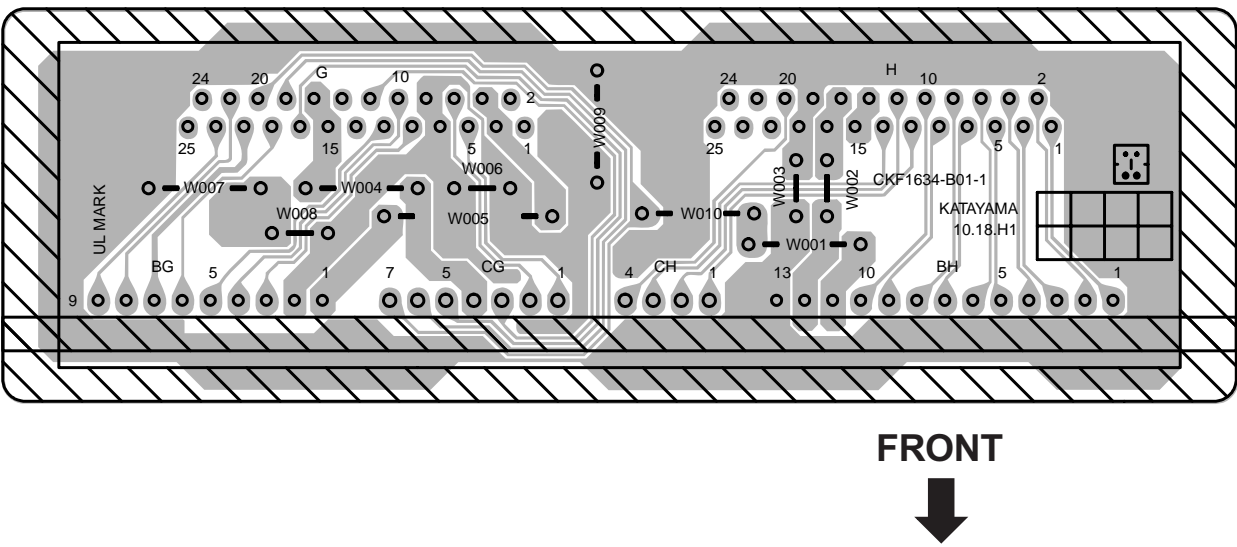
TOP



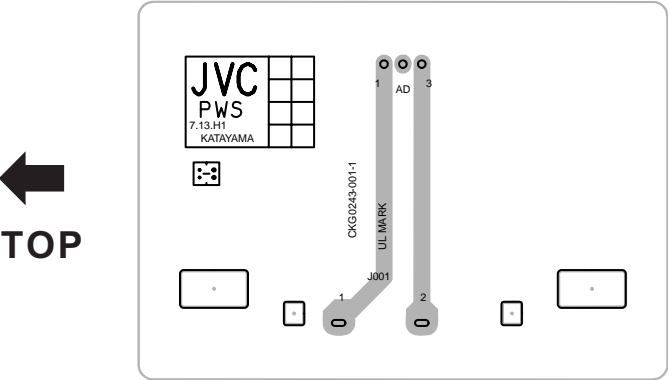
FRONT CONTROL PWB PATTERN



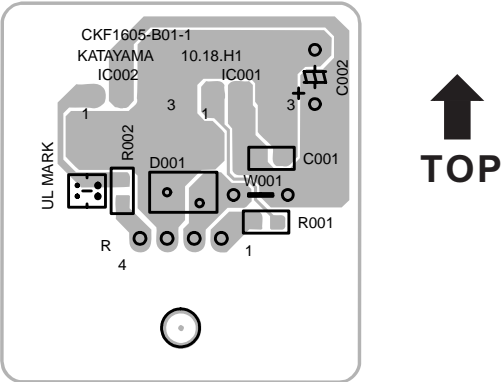
FRONT I/F PWB PATTERN



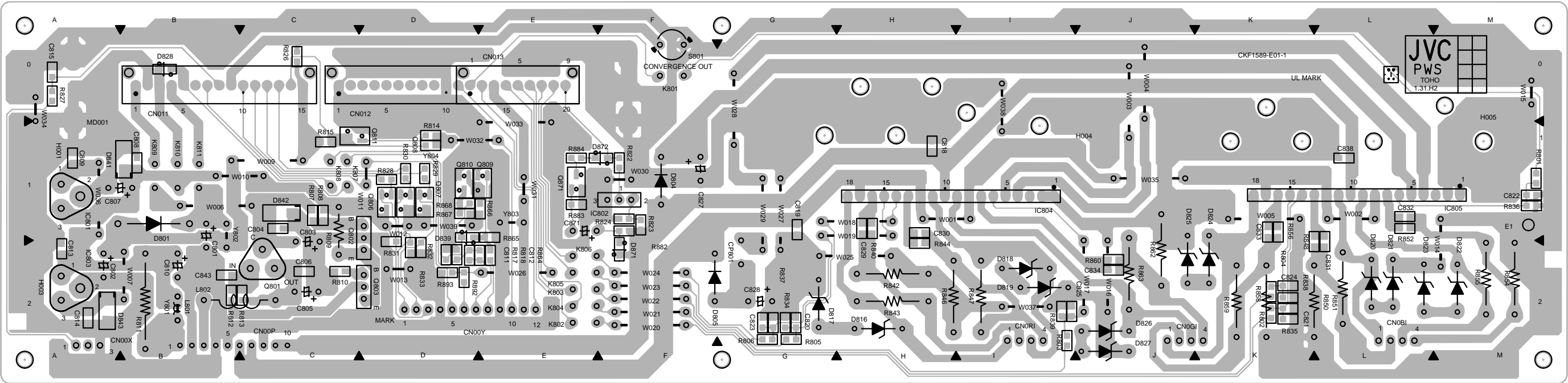
CENTER SPEAKER PWB PATTERN



REMOCON SENSOR PWB PATTERN

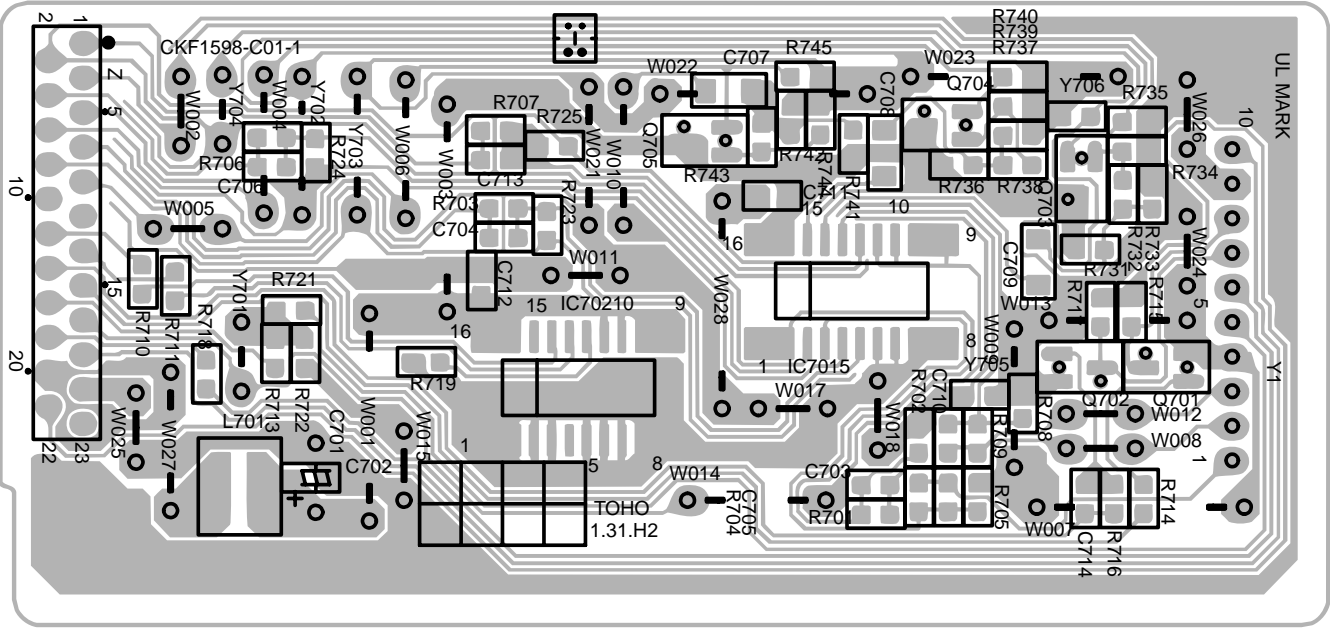


CONVERGENCE PWB PATTERN



FRONT
↓

CONVERGENCE OSD PWB PATTERN



TOP
→